

**Climatological Data for September, 1909.**  
**DISTRICT No. 6, MISSOURI VALLEY.**

J. WARREN SMITH, District Editor.

**GENERAL CLIMATOLOGICAL CONDITIONS.**

The month of September was warmer than usual in the northern part of the Missouri Valley and slightly cooler than usual in the southern part. There was more rainfall than the normal, except in most of North Dakota, South Dakota, and extreme southern Missouri. The rainfall was excessive in parts of Colorado, Nebraska, Iowa, Kansas, and Missouri. The heaviest rainfall reported during the month was 12.04 inches at Lexington, Lafayette County, Mo., although at Lawrence, Kans., the monthly fall was 11.49 inches and at Topeka, Kans., 11.48 inches. The heaviest fall in any twenty-four hours was 8.08 inches at Topeka, Kans., on the 6-7th. The fall at Lawrence, Kans., on the 6-7th, was 7.49 inches.

Temperatures of 90° or over were recorded in every State in this district, while it was over 100° in Nebraska, Kansas, and Missouri. Freezing temperatures were recorded in every State, and in the mountain districts the temperature was below 15°, but, except in the mountain sections, there was a marked absence of damaging frosts during the month.

Snow fell in measurable amounts in the mountains in Montana, Wyoming, and Colorado, while a trace was recorded at a number of places in South Dakota. The heaviest snowfall reported was 17.5 inches at Corona, Grand County, Colo., at an elevation of 11,660 feet above sea level. The prevailing winds were from the west in Montana and Wyoming, from the south in Kansas and Missouri, and from the southeast in the other States.

In Montana the month was warmer than usual, while the precipitation was more than double the normal fall for September over most of the State, and the average for the State was greater than for any other September in the past fifteen years. Temperatures above 90° were recorded on one or more days at most stations in the eastern half of the State, and above 80° in most of the mountain districts. There were several days with temperatures near or below the freezing point over most of the State, but killing frosts occurred only in limited localities. The precipitation was invariably heaviest in the mountains of the upper portions of the drainage basins, and as a rule decreased with fair uniformity over the lower elevations and plains. The rainfall was less than 1 inch in the Milk River and lower Yellowstone drainage basins. The average amounts of precipitation over the various subdrainage basins were approximately as follows: Marias, 1.60 inches; Milk River, 0.68 inch; Sun River, 2.59 inches; Beaverhead, 2.81 inches; Madison, 3.20 inches; Gallatin, 4.26 inches; Yellowstone, 2.36 inches; Big Horn, 0.92 inch; Tongue River, 1.56 inches; Powder River, 1.66 inches; Little Missouri, 1.56 inches. Over the area drained by small tributaries directly into the Missouri the average was 2.94 inches. In the higher mountain districts and in some valleys snow fell to the depth of several inches during the storm that prevailed from the 19th to the 21st. The greatest amount reported was 15.5 inches at Jones Canyon, Gallatin County, at an elevation of 6,800 feet above sea level. Severe local rain and hailstorms occurred in the Gallatin and upper Yellowstone valleys on the 2d and 3d. The highest temperature reported was 99° and the lowest 14°. The heaviest rainfall was 5.81 inches, and the greatest amount in any twenty-four consecutive hours was 3.32 inches.

The weather throughout the State of North Dakota was warm and dry and very favorable for outdoor work. The sunshine was above the average. The absence of killing frosts was unusual. The temperature averaged nearly 2° a day above the normal, principally due to high night temperatures. The highest

temperature was 92° and the lowest 28°. Light to killing frosts were reported from various stations on the 23d and 24th. The precipitation was fairly well distributed geographically. The heaviest rainfall was 2.04 inches and the greatest amount in any twenty-four hours was 1.32 inches. Light scattered showers occurred from the 2d to the 4th inclusive. Heavy showers were general from the 11th to the 14th, inclusive, and from the 18th to the 22d, inclusive. The remaining days of the month were generally fair.

The weather in South Dakota was, on the whole, favorable and unusually pleasant for the season, and the month closed with the larger part of the central and eastern portions of the State still free from frost. Killing frosts occurred in places about or after the 15th, but were mostly confined to the Cheyenne River Valley and parts of the Black Hills district. The frosts appeared to have caused little or no damage. The temperature averaged above the normal, except over the lower portions of the James and Big Sioux river valleys, and the White River Valley. The highest temperature reported was 97° and the lowest 25°. Temperatures slightly below 32° were recorded at 15 stations, mostly west of the Missouri River. General rains occurred from the 1st to the 4th and on the 21st. There were 9 days in the month on which either no precipitation fell, or none in excess of a trace was recorded at any station. The greatest monthly rainfall was 5.85 inches, and the greatest amount in any twenty-four hours was 3.79 inches. There was more than the normal amount of rain over the Black Hills district, the upper Missouri Valley counties, and the extreme lower portions of the James and Big Sioux river valleys. There was some snow, which melted as it fell, at high altitudes in the Black Hills district, on the 21st and 22d. There was about the normal amount of sunshine.

In Wyoming the temperature for the month averaged very close to the normal. During the first half, and after the 24th day the day temperatures were quite high. The highest temperature recorded was 90°. The lowest temperature was 9° at Tower Falls, Y. N. P., on the 22d. Killing frosts occurred over the higher agricultural valleys on the 12th and over some of the lower agricultural valleys on the 18th. On the 22d and 23d killing frosts occurred over nearly all sections of the State, although there were a few localities where crops remained undamaged by frost till the close of the month. The rainfall was above the normal over most of the State, although it was quite unevenly distributed. Much cloudy and rainy weather prevailed during the first twelve days of the month during which period the greater portion of the precipitation fell. During the last half of the month the weather was unusually clear. Little or no snow fell, except in the mountains; at Dome Lake, in the Big Horn Mountains the snowfall was 12 inches, and at Lake Yellowstone, Y.N.P., 8 inches. The greatest rainfall was 4.86 inches, and the greatest amount in any twenty-four hours 1.60 inches.

In Colorado unusually cool and wet weather prevailed during the first two weeks, practically all the monthly precipitation occurring before the 15th. The last half of the month was dry and comparatively warm, except for a cool spell from the 21st to the 24th, when frost occurred at most of the higher stations. The highest temperature reported was 94° and the lowest 14°. The average precipitation for the State was the greatest for September since the beginning of the records. The average for that part of the State in District No. 6 was 1.67 inches above the normal. Showers occurred almost daily until the 13th, the heaviest falls occurring on the 4th and 5th, and on 13th and

14th. The greatest monthly rainfall was 7.42 inches and the greatest fall in twenty-four hours 4.65 inches.

The mean temperature for Nebraska was almost exactly normal. Freezing temperatures and killing frosts occurred quite generally in the northwestern portion of the State on the 23d and 24th, but in the southern and eastern counties the frost, if any on these dates, was light, and no heavy or killing frost occurred in these counties during the month. The highest temperature was 104° and the lowest 24°. The precipitation for the State averaged about three-fourths of an inch above the normal. The excess was greatest in the eastern counties, where the rainfall was nearly twice the normal. The rain was well distributed through the first three weeks, while little or none fell during the last week of the month. One third more than the normal number of rainy days occurred, while the cloudiness was slightly above the normal amount. The greatest rainfall was 8.49 inches, and the greatest amount in twenty-four hours 4.80 inches.

In Iowa the hot and droughty conditions prevailing at the close of August were broken by lower temperatures on the 1st and copious and general showers on the 2d of September. The highest temperature was 94° and the lowest 30°. Light frosts occurred on low ground in the extreme northern part of the State on the 1st and 5th, and in all parts of the State on the 23d, 24th, and 27th. On the last named date the frost was heavy on low ground over the northern and northeastern counties, but reports indicate that no damage was done to vegetation, except in a very few places where some of the tender vines were injured. From the 2d to 14th showers occurred in some part of the State every day, and were general and the rainfall was heavy between the 12th and 14th. Another period of showery weather prevailed between the 19th and 24th. The heaviest rainfall was 7.34 inches, and the greatest fall in twenty-four hours 2.54 inches.

The month was characterized in Kansas by normal temperature, excessive precipitation, much sunshine, and but few high winds. The temperature was above the normal in the Kaw River Valley and in most of the Valley of the Republican. The temperature reached its maximum on the 1st and 2d in southwestern counties, and on the 11th over the rest of the State. The highest reported was 103°, and the lowest 26°. Light frosts were general on the 27th and 28th. The precipitation was above the normal, except in the extreme southeastern counties and in the northern portion of Rawlins County. The excess was greatest in Shawnee and Douglas counties, being 7.92 inches at Topeka and 7.80 inches at Lawrence. It was also 7.13 inches above the normal at Atchison. The greatest rainfall was 11.49 inches at Lawrence, and the greatest fall in twenty-four hours was 8.08 inches at Topeka. Nearly all of the rain fell during the first fifteen days, the rest of the month being quite dry with a very large per cent of sunshine. There were few high winds, although thunderstorms were quite frequent during the first part of the month.

The marked features of September weather in Missouri were the unusually high temperatures of the first two weeks over the southern division, and the cool weather with frosts during the last decade. The weather continued warm south of the Missouri River, until the 14th, making seven weeks of nearly continuous high temperature. The mean temperature for the month averaged from 1° to 3° below the normal over the northwestern and northeastern plains; in the southern districts there was quite a noticeable excess of temperature at nearly all stations. The highest temperature reported was 105°, and the lowest 28°. On the morning of the 28th freezing temperatures occurred at a number of stations in the Ozark region. The

heaviest precipitation occurred along the Charitan, Grand, and Missouri watersheds, the total monthly falls ranging from 5 to over 12 inches. The precipitation over the greater part of the Ozark region, including the Gasconade, Osage, White, and Neosho watersheds was noticeably deficient. The heaviest rainfall was 12.04 inches and the greatest amount in twenty-four hours 4.48 inches. The percentage of sunshine was slightly below the normal.

#### TEMPERATURE.

The temperature averaged considerably above the normal in the northern part of the Missouri watershed, about normal in central districts and slightly below the normal in the southern States. The highest temperature recorded was 105° in Cedar County, Mo. The lowest was 9° in the Yellowstone National Park. Temperatures above 100° occurred in Nebraska, Kansas, and Missouri, and above 90° in other States. Temperatures below freezing occurred in all States.

#### PRECIPITATION.

The rainfall of the whole watershed was considerably above the normal, especially the western portions. The heaviest rainfall was 12.04 inches at Lexington, Lafayette County, Mo. The greatest fall in any twenty-four consecutive hours was 8.08 inches at Topeka, Kans., on the 6-7th. The heaviest snowfall reported was 17.5 inches at Corona, Grand County, Colo.

#### RIVERS.

The large rainfall over the various drainage basins in Montana caused the streams to be above the normal for the season in that State. The heavy rains in the early part of the month in Colorado caused high water in the Arkansas River and its tributaries, but the resulting damage was comparatively small. The larger rivers in this district had about the usual September flow.

#### MISCELLANEOUS.

The high water in the Arkansas River made it necessary to operate the power plant at the Garden City reclamation project, Kansas, only for a short time during the first part of the month. Water from the river was available for irrigation throughout the remainder of the month. Seventy-nine acres of land were irrigated with pumped water, and 2,602 acres with river water.

The Yellowstone River was unusually high at the lower Yellowstone project, and several unexpected rises somewhat interfered with the work.

The weather conditions were, on the whole, very favorable for outside work during the greater part of the month.

The month closed with the soil in some central and western counties in South Dakota becoming too dry, and in part of Missouri the monthly rainfall was insufficient for agricultural needs. Over the greater part of this district, however, the rains of the month put the soil in excellent condition for plowing and for seeding winter grains. The dry and warm weather of the last part of the month caused corn to dry out rapidly and little or no damage was done this crop by frost.

Severe local rain and hailstorms occurred in the Gallatin and upper Yellowstone valleys in Montana on the 2d and 3d. The area affected included a rich agricultural district, and much damage was done to grain, hay, and other crops. Heavy wind squalls did material damage on the 12th in northern, western, and southwestern Iowa in blowing down corn. The section director in South Dakota, reports that there were fewer thunderstorms than usual for September, except in southeastern counties. Some of them were accompanied by hail or local high wind, however, and some damage was done to farm buildings.

TABLE 1.—Climatological data for September, 1909. District No. 6, Missouri Valley.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.				
				Departure from the normal.		Highest.	Date.	Lowest.		Greatest daily range.	Total.	Departure from the normal.		Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
				Mean.	Highest.			Date.	Lowest.	Greatest daily range.	Total.	Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.				
Wyoming.																					
Arapahoe.	Fremont.																	David Malloy.			
Barnum.	Johnson.	5,500	4															Thos. Freeguard.			
Basin.	Big Horn.	3,856	10	59.6	-1.2	88	10	31	23†	43	0.36	-0.05	0.18	0.0	4	24	4	2	w.		
Bennett.	Carbon.																	O. J. Robertson.			
Cheyenne.	Laramie.	6,088	38	57.0	-0.2	81	2	29	23	41	1.37	+0.43	0.85	0.0	9	13	11	6	nw.		
Cheyenne Exp. Farm.	do.	6,000	3															U. S. Weather Bureau.			
Chugwater.	do.	5,282	8	59.6	+2.3	87	10	25	24	55	0.60	-0.64	0.50	0.0	2	24	5	1	w.		
Clark.	Big Horn.	4,320	4	60.0		85	10	35	23	53	1.69		0.41	0.0	10	13	8	9	n.		
Crystal Lake Reservoir.	Laramie.	6,900		58.8		81	3	20	24	53	1.00		0.40	0.0	3	11	11	4	sw.		
Douglas.	Converse.	4,793		61.2		87	25	33	24	50	1.37		0.58	0.0	5			5	w.		
Dubois.	Fremont.	6,908	3	51.2		78	26	19	20	43	1.27		0.74	T.	4	15	10	5	sw.		
Eaton's Ranch.	Sheridan.	4,600	4	59.9		89	28	34	23	34	2.92		0.95	0.0	7	19	8	3	nw.		
Echeta.	Crook.																	F. A. Eaton.			
Ell Mountain.	Carbon.																	M. R. Hunter.			
Encampment.	do.	7,322		55.2		76	3†	27	22	38	1.68		0.80	0.0	4	22	4	4	n.		
Ervy.	Natrona.					82	3											Wm. Richardson.			
Filmore.	Albany.	7,527	3															U. S. Forest Service.			
Fort Laramie.	Laramie.	4,270	32	62.1	+2.1	90	10†	28	24	55	1.13	+0.19	0.58	0.0	5	17	10	3	w.		
Gillette.	Crook.	4,546	3	60.8		86	9	34	22	44	2.14		0.73	0.0	7	14	4	3	sw.		
Granite Canyon.	Laramie.	7,337	4	52.8	-0.9	78	2	26	23	44	0.88	-0.24	0.53	0.0	5	20	4	6	w.		
Hunter's Station.	Johnson.	8,000	3	49.0		74	26†	21	23	39	2.11		1.10	3.0	9	17	7	6	w.		
Hyattville.	Big Horn.	6,632	10	59.8	+0.7	90	28	30	23	41			0.40	0.0	1	15	6	9	w.		
Independence.	Natrona.			55.4		85	24	20	28	64	1.26							Frank Jameson.			
Kaycee.	Johnson.																	Jas. Dougherty.			
Kirkley.	Converse.	5	58.2	-0.1		85	11	37	23	46	1.04	-0.12	0.38	0.0	5	22	3	5	sw.		
Kirwin.	Big Horn.	9,187	1	43.8		67	27†	18	23†	37	1.32		0.50	0.8	7	13	10	7	w.		
Knowles.	Crook.																	G. A. Knowles.			
Lander.	Fremont.	5,372	17	56.5	+1.3	83	28	25	23	44	0.76	-0.26	0.29	0.1	8	10	16	4	sw.		
Laramie.	Albany.	7,188	18	54.0	+0.5	79	3	23	22	45	0.97	0.00	0.32	0.0	5	14	14	2	s.		
Leo.	do.	6,878	8	52.0	-1.0	78	27	20	23	42	0.03	+1.06	1.01	T.	9	10	10	10	University of Wyoming.		
Lolabama Ranch.	Big Horn.	7,052	6	51.8	+2.7	75	27†	22	23	51	1.62	+0.80	0.70	0.0	9	10	15	5	Mary E. Painter.		
Lovel.	do.	5,007	19	60.2		88	28†	30	24	50	1.02		0.43	0.0	7	13	8	9	Fred Harrison.		
Lusk.	Converse.			57.3	-0.6	82	25†	30	23†	47	1.75	+1.03	1.00	0.0	3				D. E. Goddard.		
Luther.	Laramie.																	Henry D. Colburn.			
Manville.	Converse.	5,050																C. A. Sherman.			
Moorecroft.	Crook.	4,211	6															Jas. K. Somera.			
Moore.	Albany.	6,000	8	57.8	+1.8	84	26	27	24	48	0.88	-0.74	0.27	0.0	7	13	12	5	w.		
Newcastle.	Weston.	4,319	3	60.4		90	26	29	23	48	1.62		1.02	0.0	5	15	14	1	sw.		
Pathfinder.	Natrona.	5,735	3															U. S. Reclamation Service.			
Phillips.	Laramie.	4,900	6	59.4	+1.0	86	30	33	24†	49	1.49	+0.29	0.76	0.0	4	16	9	5	nw.		
Pine Bluff.	do.	5,038	9															C. W. Johnson.			
Powell.	Big Horn.	4,376	2	59.8		87	28†	31	23	45	0.69		0.38	0.0	4	8	16	6	w.		
Riverton.	Fremont.																	U. S. Reclamation Service.			
Saratoga.	Carbon.	7,300	12	53.9	-0.2	77	26†	24	23	42	1.25	+0.36	0.30	0.0	7	16	7	7	e.		
Sheridan (1).	Sheridan.	3,700	14	58.2	+1.4	89	26	30	24	51	1.89	+0.57	0.81	0.0	10	11	11	8	nw.		
Sheridan (2).	do.	3,738	14	58.4	+1.6	88	26	29	24	52	1.74	+0.62	1.04	0.0	3	15	12	3	nw.		
Shoshone Dam.	Big Horn.	5,385	3	60.5		89	27	26	23	40	0.89		0.28	0.7	10	12	12	6	w.		
Soldiers' Home.	Johnson.	4,635	17	60.2	+2.1	86	26	35	23	42	1.86	+1.11	0.91	0.0	8	11	18	1	nw.		
South Pass City.	Fremont.			47.2		74	27	18	23	45	1.95		1.49	0.2	6	14	10	6	sw.		
Thermopolis.	do.	4,350	7	60.8		90	28	29	23	53	1.22		0.45	T.	7	19	6	5	sw.		
Upton.	Weston.																	Robert P. Quest.			
Valley.	Big Horn.	6,500																Supt. S. & E. R. R.			
Verona.	Sheridan.																	U. S. Weather Bureau.			
Wiley.	Big Horn.	5,375		58.7		85	25	29	23	38	0.88		2.76	0.0	4	23	0	3	sw.		
Wyncote.	Laramie.	4,207	2	64.4		87	11	36	28	45	0.80		0.30	0.0	2	26	1	3	nw.		
Yellowstone Park.	National Park.	6,200	22	51.4	-2.0	75	25	26	23	36	2.45	+1.44	0.87	T.	12	8	9	13	sw.		
(1) Fountain.	do.			47.3		76	27	16	23	46	3.51		1.10	3.0	10	14	4	12	s.		
(2) Grand Canon.	do.			44.0		69	26	19	23	44	2.82		0.80	15	9	3	18	ne.			
(3) Lake Hotel.	do.	7,733	5	45.6		70	27	19	23	40	1.75		0.52	8.0	14	11	17	2	s.		
(4) Norris Geyser.	do.	7,525	5	44.4		70	28†	18	23	44	1.92		0.52	3.0	9	8	3	19	w.		
(5) Riverside.	do.	6,500	3	47.7		75	25	17	23	54	2.74		0.78	12	9	10	11	s.			
(6) Soda Butte.	do.	7,000	4	47.2		78	28	16	23	58	1.51		0.80	1.0	6	16	7	7	sw.		
(7) Sylvan Pass.	do.	7,000	2	47.0		74	28	21	23	47	4.09		0.72	0.0	11	13	11	6	sw.		
(8) Thumb.	do.			46.6		73	28	20	23	42	2.63		0.76	5.0	11	13	14	3	n.		
(9) Tower Falls.	do.			51.0		82	28	9	23	58	0.59		0.21	0.0	7	15	2	13	ne.		
(10) Upper Basin.	do.	7,395	5	44.3		69	27	21	23†	39	2.50		1.20	0.0	3	18	2	10	sw.		
Montana.	Dawson.			1	60.8													T. H. Busteed.			
Adel.	Cascade.	5,200	11	54.0	+2.1	79	28	30	26	45	0.54	+3.85	2.70	0.0	11	16	1	13	w.		
Agricultural College.	Gallatin.	4,700	10	53.9	+0.6	80	25	30	23	40	5.54	+3.78	1.03	1.0	13	7	19	4	se.		
Augusta.	Lewis & Clark.	4,071	10	54.5	+2.3	81	6†	28	23	49	3.70	+2.56	1.65	0.5	21	4	5	5	w.		
Babb.	Teton.	4,461	4	54.9		82	6	29	5	52	1.80		0.73	0.0	4	13	12	5	sw.		
Bald Butte.	Lewis & Clark.	6,500																M. W. Alderson.			
Big Creek.	Park.	5,800																Peter Vink.			
Big Timber Creek.	Sweetgrass.	4,070																W. H. Patterson.			
Billings.	Yellowstone.	3,115	15	59.2	-1.2	91	25	23	19	60	0.79		0.25	0.0	6				U. S. Weather Bureau.		
Boulder Nursery.	Jefferson.			50.2																	

## MONTHLY WEATHER REVIEW.

SEPTEMBER, 1909

TABLE 1.—Climatological data for September, 1909. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Montana—Cont'd.																				
Cut Bank.	Teton.	3,700	11	56.6	+ 6.2	86	7	29	47	51	0.50	- 1.20	0.45	0.0	2	16	7	7	w.	Chas. N. Thomas.
Decker.	Rosebud.	3,400	5	59.2		95	2	31	6	56	2.00	+ 0.57	2.00	0.0	1	5	12	11	w.	Adam Anderson.
Deep Creek.	Broadwater.	4,200									3.44		1.90	0.0						Mrs. D. W. Maryott.
Delphine.	Meagher.	5,000									4.43		1.60	T.						Tracy L. Holliday.
Denton.	Fergus.	2	55.8	+ 2.3		85	25	31	19	50	3.58		1.07	0.0	9	20	3	7	nw.	R. M. Chamberlain.
Dillon.	Beaver Head.	5,147	13	55.8	+ 2.3	84	27	30	23	43	4.14	+ 2.66	1.31	T.	11	13	11	11	sw.	J. E. Monroe.
Dirty Creek.	Meagher.	6,000									2.93		0.72	T.	13	14	8	8	w.	Lewis Cameron.
Dry Creek.	Broadwater.	5,500																	J. C. Stuart.	
Dry Wolf Camp.	Cascade.	6,000																	Mrs. R. J. Eveleth.	
East Gallatin River.	Gallatin.	6,300																	John Eberhart.	
Ekalaka.	Custer.	6,576																	W. Freese.	
Elkhorn.	Jefferson.	4,900																	J. W. Skelton.	
Evans.	Cascade.	4,900																	H. Thrasher.	
Fallon.	Custer.	2,208	5	61.8		95	10	29	24	52	0.87		0.67	0.0	2	15	7	8	nw.	Mrs. A. C. Gifford.
Family.	Teton.	3,950	1	56.6		85	7	28	24	51	T.		T.	0.0	0	14	10	6	w.	U. S. Reclamation Service
Fish Creek.	Silver Bow.	8,500		47.0		66	97	26	22	28	3.59		1.23	8.0	12	9	7	14	w.	O. B. Tilton.
Fish Tail Creek.	Carbon.	5,000									3.08		0.83	0.0	12	14	9	7	w.	O. E. Haskin.
Flathead Creek.	Gallatin.	6,000									4.46		0.75	2.0	9	9	13	9	nw.	L. G. Brown.
Forsyth.	Rosebud.	2,514	3	62.8		93	10	33	24	49	1.32		0.51	0.0	5	13	11	5		Thos. M. Patterson, jr.
Fort Benton.	Chouteau.	2,030	30	59.8	+ 2.6	37	9	36	18	45	1.75	+ 0.78	0.50	0.0	6	16	10	6	sw.	River Observer.
Fort Shaw.	Cascade.	3,500	21	58.3	+ 3.2	85	25	35	24	48	0.60		0.60	0.0	5	9	8	13	w.	U. S. Reclamation Service
Fort W. H. Harrison.	Lewis & Clark.	4,004	6	57.5		85	25	28	24	60	0.85		0.40	0.0	7	14	11	5	s.	Post Hospital.
Foster.	Yellowstone.	5,500	1	61.5		93	25	28	24	60	0.85		1.25	2.0	9	12	7	11		E. K. Bowman.
Garnell.	Fergus.	2,069	20	50.8	+ 4.6	72	28	26	23	33	3.39		- 0.38	0.55	0.0	2				J. E. Scally.
Glendive.	Dawson.	2,069	4	57.6		87	25	24	23	51	0.18		0.10	0.0	3	17	8	5	sw.	W. B. Walker.
Goldbutte.	Chouteau.	4	60.9			94	26	28	24	59	1.66		0.75	0.0	7	15	6	4	nw.	J. S. Rue.
Graham.	Gallatin.	6,700	6	47.1		74	25	14	23	53	3.08		0.90	2.0	11	5	10	15	sw.	P. Kersennacher.
Graying Falls.	Cascade.	3,350	18	59.6	+ 2.5	84	26	37	20	38	2.85	+ 1.76	0.97	0.0	9	14	9	7	sw.	S. H. Bauman.
Half Moon Pass.	Fergus.	6,500									5.34		1.30	6.0	14	7	17	6	w.	Thos. Stigen.
Half Way House.	Broadwater.	6,000									5.81		1.79	4.5	13	15	10	5		Gordon Deans.
Harlowton.	Meagher.	4,185	2	55.0		82	9	28	18	47	3.11		0.66	0.0	8	0	22	8	sw.	Jos. Muir.
Hassel.	Broadwater.	5,200									4.48	- 0.09	0.48	0.0	9	12	15	3	sw.	E. C. Albrecht.
Havre.	Chouteau.	2,505	29	60.6	+ 4.4	91	28	32	4	48	0.94	+ 1.08	0.89	0.0	9	9	8	13	sw.	U. S. Weather Bureau.
Helena.	Lewis & Clark.	4,110	30	56.2	0.0	81	28	34	23	38	2.14		1.41	2.0	14	16	1	13	ne.	U. S. Weather Bureau.
Highwood.	Madison.										2.52		0.75	2.5	5	12	5	12	se.	H. L. Miller.
Home Park.	Yellowstone.	3,014	4	62.2		92	25	31	19	54	0.80		0.55	0.0	3	14	12	4	nw.	U. S. Reclamation Service
Hunley.	Gallatin.	6,800	5	62.0		92	10	29	19	50	0.40		0.30	0.0	2	16	0	14	nw.	Jas. McCune.
Jones Canyon.	Dawson.										3.34		0.77	15.5	15					W. H. Henderson.
Jordan.	Jefferson.	6,000									2.37		0.53	0.0	11	9	16	5	w.	W. W. Watson.
Kleinsmith Creek.	Fergus.	4,010	12	56.0	+ 2.3	89	14	30	30	49	4.23	+ 2.58	1.16	1.0	11	10	10	10	nw.	Lewis Terwilliger.
Lewistown.	Park.	4,488	11	58.2	+ 0.5	88	97	35	23	41	4.30	+ 2.86	1.66	0.0	11	12	8	10	sw.	F. G. White.
Livingston.	Sweetgrass.	5,700									4.31		1.10	0.0	8	18	9	3	w.	E. Wilson.
Lodge Pole Creek.	Chouteau.	5,800	5	60.5		87	25	37	24	43	3.08		1.00	0.0	8	21	1	8	w.	C. M. Mason.
Lone Tree.	Meagher.										3.48		0.90	T.	13	9	13	8	w.	Emery Mudd.
Lost Horse Creek.	Teton.	5,046	1			93	10	31	23	50	0.20		0.18	0.0	5	17	10	3	w.	U. S. Reclamation Service
Lubee.	Valley.	2,240	3	61.6							2.06		1.50	8.0	7	3	10	10	e.	F. E. Parent.
Meadow Creek.	Madison.	6,700									1.46		0.34	0.0	10	12	16	2	se.	E. J. Parkinson.
Melstone.	Fergus.	2,903									1.11	+ 0.19	0.65	0.0	7	12	12	6	sw.	U. S. Weather Bureau.
Mildred.	Custer.	2,371	15	63.9	+ 2.7	94	10	36	24	44	1.11		0.65	0.0	3	9	15	3	w.	W. H. Edick.
Miles City.	Park.	5,500									4.31		1.10	0.0	8	18	9	3	w.	Clyde Grove.
Mill Creek.	Fergus.										3.51		1.43	0.0	13	5	11	11	nw.	Emery Mudd.
Moore.	Deer Lodge.	4,845	3	57.5		82	9	32	23	41	4.54		1.00	T.	8	12	3	15	s.	Madison River Power Co.
Mudd Creek.	Madison.			50.4		79	27	25	57	48	2.69		0.82	0.0	13	18	3	9	sw.	F. L. Bryant.
Norris.	Sweetgrass.										3.43		0.96	0.0	14	12	6	12	w.	Robt. Elmer.
Olsen Creek.	Jefferson.	6,345									4.54		1.20	5.0	10	6	8	16		Mrs. Theola Klemeyer.
Pipestone Pass.	Jefferson.	7,000									3.35	+ 2.25	1.50	0.0	11	12	9	9	sw.	H. M. Coster.
Poplar.	Valley.	2,020	25	61.9	+ 2.5	95	26	32	22	45	0.22	- 0.63	0.22	0.0	1	24	6	0	w.	W. H. Campbell.
Raymond.	Teton.	4,260	2	65.2		95	16	35	11	55	0.95		0.65	0.0	3	9	15	3	w.	E. A. Reber.
Rebers Ranch.	Carbon.	6,000									3.51		1.43	0.0	13	5	11	11	nw.	I. A. Draper.
Red Lodge.	Gallatin.	5,548	9	53.2		78	77	27	22	44	3.51		1.20	5.0	10	6	8	16		Henry Cramer.
Reese Creek.	Fergus.	5,000									4.54		1.20	5.0	10	6	8	16		F. B. Elmer.
Renova.	Jefferson.	4,333	10	55.8	0.0	83	25	27	23	51	3.35	+ 2.25	1.50	0.0	11	12	9	9	sw.	Milo Brooks.
Rimini.	Lewis & Clark.	7,900	1	50.2		69	28	33	22	45	3.30		1.00	0.0	7					H. W. Scherfenberg.
Ryegate.	Yellowstone.	3,640	1	50.2		86	9	25	23	47	3.18		1.11	2.5	11	9	13	8	w.	Jas. Wooley.
Sedan.	Gallatin.	3,155	2	51.6		99	26	29	4	54	1.11		0.32	0.0	6	13	10	7	w.	Mrs. H. L. Miller.
Springbrook.	Dawson.	4,500	3	61.0		99	26	29	4	54	1.11		3.32	T.	5	18	3	10	w.	Jas. W. Hargrove.
Stearns.	Lewis & Clark.	4,500									3.17		0.18	0.0	7	21	8	1		U. S. Reclamation Service
Tokna.	Dawson.	2,050	4	61.8		96	17	32	24	52	0.72		2.77	0.95	6					River Observer.
Toston.	Broadwater.	3,950	8								4.28		0.81	3.7	15	12	5	13	w.	Andrew Weidenbauer.
Townsend.	Park.	3,790									4.27	+ 3.06	1.45	0.0	10	20	8	4	w.	P. W. Korell.
Trail Creek.	Fergus.	6,000									4.27		0.50	0.0	8	18	5	16		B. M. Bean.
Utica.	Fergus.	5,000	16	56.0	- 0.3	81	10	31	23	56	4.27		0.43	0.0	6	12	14	4	sw.	Francis Mailand.
Valentine.		3	59.8	- 0.3	90	25	29	23	52	1.24	</									

TABLE 1.—Climatological data for September, 1909. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.							
				Mean.			Departure from the normal.			Highest.			Lowest.			Greatest daily range.			Total.						
				Date.	Highest.	Lowest.	Date.	Highest.	Lowest.	Date.	Highest.	Lowest.	Date.	Highest.	Lowest.	Date.	Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
North Dakota—Cont'd.																									
Fullerton.	Dickey.	1,439	10	58.8	+ 2.9	88	11	29	24	46	0.66		- 1.43	0.46	0.0	2	20	8	2	s.	F. O. Alin.				
Haley.	Bowman.		1																					Myra Hart.	
Hettinger.	Adams.	2,253	2	59.8		89	26	31	23	48	0.20		0.04	0.0	6	12	12	6	se.	F. E. Ellikson.					
Howard.	Williams.	2,275	2	59.8	- 0.6	89	27	29	24	45	0.83	- 0.75	0.34	0.0	6	9	21	0	nw.	C. B. Amsbaugh.					
Jamestown.	Stutsman.	1,390	21	56.6																			L. B. Baldwin.		
Kulm.	Lamoure.	1,966	4			91	11	30	22	43	1.60		1.32	0.0	3	20	7	3	nw.	J. F. Breckle.					
Lamoine.	Kidder.		1	58.0										0.24	0.0	3	16	9	5	se.	E. V. Virgin.				
Lamoure.	Wells.	1,307	2	58.5		91	11	29	22	42	0.32		0.22	0.0	3	16	10	3	se.	A. H. Ormsby.					
Manfred.	Marmarth.		1											0.72	0.0	3	16	10	3	se.	S. P. Crane.				
Marstonmoor.	Bowman.		1											0.41	0.0	1	17	10	3	se.	H. H. McCumber.				
Medina.	Stutsman.		do.											0.50	0.0	4	13	13	4	e.	M. Dwyer.				
Medora.	Billings.	1,796	4	58.4 <sup>a</sup>	90 <sup>b</sup>	10	30	24	48 <sup>c</sup>	1.10	- 0.20	0.48	0.0	2	11	8	11	nw.	J. W. Heaser.						
McElvane.	Foster.	1,590	11	56.6 <sup>d</sup>	+ 1.0	85 <sup>e</sup>	87 <sup>f</sup>	32 <sup>g</sup>	23 <sup>h</sup>	37 <sup>i</sup>	0.96	+ 0.27	0.30	0.0	2	20	4	6	se.	J. P. Kidder.					
Mott.	Hettinger.		2	59.4		92	27	28	23	48	1.25	+ 0.27	0.30	0.0	5	18	4	8	se.	O. H. Opland.					
Napoleon.	Logan.	1,955	17	58.2	+ 1.4	89	11	30	22	46	0.90	+ 1.04	1.25	0.0	0	16	11	3	se.	J. C. Hoof.					
New England.	Hettinger.	2,400	13	57.4	+ 1.2	86	17	29	24	44	2.04	+ 0.60	0.46	0.0	10	12	11	7	se.	W. C. McKenzie.					
New Salem.	Morton.	2,163	2	59.4		91	27	33	24	48	0.85		0.33	0.0	8	18	6	6	se.	J. E. Christiansen.					
Orange.	Adams.		2	60.7		90	10 <sup>j</sup>	32	19	47	1.20		0.33	0.0	1	16	10	4	se.	J. E. Goforth.					
Palermo.	Ward.	2,200	5											0.80	0.0	1					T. A. McCann.				
Steels.	Kidder.	1,857	13	58.0 <sup>k</sup>	+ 1.4	85 <sup>l</sup>	27	32 <sup>m</sup>	22	35 <sup>n</sup>	0.62	- 0.64	0.62	0.0	1					B. C. Smith.					
Swartwood.	Bowman.		1											0.98	0.0	10	16	6	8	se.	W. F. Adams.				
Washburn.	McLean.	1,731	5	61.6		91	27	35	22	43	1.27		0.44	0.0	5	17	10	3	s.	R. W. Peterson.					
Williston.	Williams.	1,875	29	60.5	+ 1.0	88	26	34	24	39	1.07	+ 0.16	0.46	0.0	10	12	11	7	se.	U. S. Weather Bureau.					
Wishak.	McIntosh.	2,010	4	56.2		86	27	30	24	47	0.80		0.80	0.0	1	16	10	4	se.	H. E. Timms.					
South Dakota.																									
Aberdeen.	Brown.	1,300	20	59.2	0.0	88	11	32	24	48	2.05	+ 0.22	0.60	0.0	7	20	2	3	s.	D. G. Gallett.					
Academy.	Charles Mix.	21	64.0	+ 0.7	93 <sup>o</sup>	20	37 <sup>p</sup>	5	39 <sup>q</sup>	0.86	- 0.87	0.25	0.0	6	14	10	6	se.	I. T. Lothrop.						
Alexandria.	Hanson.	1,353	21	61.7	- 0.2	88	20	35	24	38	1.77	- 0.57	1.34	0.0	3	14	14	2	se.	W. S. Hill.					
Andover.	Day.		1,476											2.73		1.08	0.0	4				E. L. Stone.			
Ardmore.	Fall River.		3,557	1										0.48		0.45	0.0	1	10	6	6		C. G. Hurlbut.		
Armour.	Douglas.	1,521	16	62.1	- 0.9	90	20	32	23	48	1.02	- 1.23	0.70	0.0	5	16	12	2	sw.	J. S. Bean.					
Ashcroft.	Harding.	3,192	18	59.5	+ 0.6	97 <sup>r</sup>	27	28	24	52 <sup>s</sup>	1.60	+ 0.62	0.76	0.0	5	20	3	7	se.	Thos. Ashcroft.					
Belle Fourche.	Butte.	3,000	2	60.8		97	30	29	24	55	1.06		0.33	0.0	11	13	8	10	nw.	W. H. McGinley.					
Bowdle.	Edmunds.	1,995	15	60.0	+ 1.3	88	9	33	23	44	1.75	+ 0.42	1.13	0.0	6	22	3	5	nw.	C. T. Smithers.					
Brookings.	Brookings.	1,636	22	60.2		86	12	31	15 <sup>t</sup>	40	1.77	- 0.33	1.31	0.0	7	10	11	9	s.	Prof. C. Willis.					
Burke.	Gregory.		2											0.40		0.40	0.0	7	16	10	4	se.	James Connell.		
Canton.	Lincoln.	1,245	14	60.8	- 1.2	86	11	32	24	51	2.35	+ 0.90	1.72	0.0	7	15	6	9	se.	John H. Holsey.					
Cascade Springs.	Fall River.	3,422	2	61.0		89	11 <sup>u</sup>	26	24	56	1.25		0.54	0.0	4	16	9	5	w.	Fred Norenberg.					
Castlewood.	Hamlin.	1,655	4	59.1	- 1.9	89	10	32	24	53	1.02	- 1.34	0.27	0.0	8	13	7	10	se.	M. N. Bradley.					
Centerville.	Turner.	1,229	5	60.2	- 4.3	85 <sup>v</sup>	30	29	24	55	1.06	+ 0.70	0.80	0.0	6	15	10	5	se.	Frank Williams.					
Chamberlain.	Brule.	1,363	12	63.8	- 0.7	91	11 <sup>w</sup>	36	19 <sup>x</sup>	43	0.66	- 0.56	0.41	0.0	2	22	3	5	sw.	G. A. Fry.					
Clark.	Clark.	1,779	16	59.9	+ 0.6	85	11	34	5	41	0.96	- 1.63	0.32	0.0	9	12	16	2	sw.	O. H. La Craft.					
Clear Lake.	Deuel.	1,800	7											0.0							L. F. Hanly.				
Clifton.	Sully.													0.40		0.40	0.0	7	16	10	4	se.	H. F. Chamberlain.		
Cottonwood.	Stanley.		1	64.2		94	11 <sup>y</sup>	29	24	51	1.13		0.40	0.0	2	15	6	9	se.	S. W. Sussex.					
Daviston.	Perkins.		1			90	18 <sup>z</sup>						2.30		1.00	0.0	6	21	6	3	sw.	G. D. Davis.			
Deadwood.	Lawrence.	4,535	1	57.6		89	26	30	19 <sup>aa</sup>	42	2.80		1.50	0.0	9	14	7	9	se.	R. E. Grimshaw.					
De Smet <sup>1</sup> .	Kingsbury.	1,726	18	60.6	+ 0.7	86	11	32	24	44	0.78		0.23	0.0	6	17	7	6	se.	J. O. Purinton.					
Dowling.	Stanley.	2,250	1	64.3		95	11	36	24	44	1.67		0.52	0.0	10	11	11	8	sw.	M. P. Dowling.					
Dumont.	Lawrence.	6,195	1			94	12	40	5	35			0.0								A. B. Wood.				
Elk Point.	Union.	1,127	11			94	12	40	5	35			0.0								H. Hoffman, Jr.				
Engleson.	Perkins.													0.67		T.	7	14	7	9	sw.	R. E. Sheriff.			
Eureka.	McPherson.	1,884	1	61.0		90	27	33	24	43	1.25		1.04	0.0	6	21	6	3	nw.	E. E. White.					
Fairfax.	Gregory.	5,723	1	60.6	- 0.5	90	10 <sup>aa</sup>	40 <sup>aa</sup>	5	33	0.68		0.25	0.0	5	18	10	2	nw.	W. D. Griggs.					
Farmingdale.	Pennington.	3,000	14										1.92		0.67	T.	7	14	7	9	sw.	J. T. Murphy.			
Faulkton.	Faulk.	1,595	16	60.7	+ 0.7	87	11 <sup>aa</sup>	37	23	42	1.51	+ 0.10	0.72	0.0	3	19	7	4	se.	A. E. Nicholls.					
Flandreau.	Moor.	1,565	20	59.8	- 1.5	83	10 <sup>aa</sup>	35	24	47	1.54	+ 0.65	0.45	0.0	7	15	10	5	se.	Miss Belle Talcott.					
Forestburg.	Sanborn.	1,231	19	63.3	+ 1.2	94	20	33	24	44	1.19	- 0.57	1.06	0.0	2	16	9	5	se.	G. A. Perley.					
Fort Meade.	Meade.	3,624	29	65.0	+ 4.5	94	26	37	24	44	1.50	+ 0.70	0.80	0.0	6	15	10	5	se.	M. K. Judy.					
Frederick.	Brown.	1,371	3	60.4		90 <sup>b</sup>	11	31 <sup>c</sup>	24 <sup>d</sup>	48 <sup>e</sup>	1.19	- 0.87	0.0	0	4	22	7	1	s.	Post Surgeon.					
Greenmount.	Buffalo.		12	62.8	- 0.2	88	10 <sup>f</sup>	34	15 <sup>g</sup>	43	1.13	- 0.14	0.65	0.0	2	10	16	4	se.	J. E. Jeffers.					
Lawrence.	Lawrence.	6,430	1			85	26	35	24	44															

TABLE 1.—Climatological data for September, 1909. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Data.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days, 0.1 inch or more.							
<i>South Dakota—Cont'd.</i>																						
Selby.....	Walworth.....	1	61.8		91	11	31	22	40	1.19		0.92	0.0	2	13	14	3	se.	Miss Gertrude Hall.			
Sioux Falls.....	Minnishaha.....	1,400	20	62.5	+ 0.2	87	11	34	5	47	2.00	- 0.23	0.90	0.0	7	11	4	15	se.	J. H. Bechtold.		
Spearfish.....	Lawrence.....	3,647																	O. A. Martin.			
Stephan.....	Hyde.....	1,840	5	61.2		90	11	31	24	48	1.24		0.90	0.0	3	12	9	9	se.	Rev. A. Mattingly.		
Tama.....	Meade.....	1																	J. J. Daily.			
Vale.....	Butte.....	2,765	2	62.0		95	26	27	24	53	1.61		0.50	0.0	7	19	7	4	nw.	G. W. Shaw.		
Van Metre.....	Lyman.....																		Thos. H. Hill.			
Vermillion.....	Clay.....	1,223	8	61.8		85	20	37	23	38	3.93		1.44	0.0	11	19	1	10	se.	Prof. E. C. Perisho.		
Water's Ranch.....	Lawrence.....	4,000	1																Geo. Waters.			
Watertown.....	Codington.....	1,735	14	60.4	+ 1.9	87	10	35	5†	38	0.50	- 1.47	0.25	0.0	2	15	7	8	s.	Robert Q. Wood.		
Wentworth.....	Lake.....	19	61.0	- 0.1		85	20	33	23	37	1.37	- 1.12	0.36	0.0	8	21	5	4	s.	R. C. Zimmerman.		
Wessington Springs.....	Jerauld.....	1,410	14																F. N. Dunham.			
White Lake.....	Aurora.....	1,640																	Mrs. G. A. Rogers.			
Yankton.....	Yankton.....	1,234	37	62.6	- 0.7	87	20	40	24	34	3.67	+ 1.22	1.66	0.0	10	11	11	8	s.	U.S. Weather Bureau.		
<i>Minnesota.</i>																						
Pipestone.....	Pipestone.....	1,710	10	59.6	+ 0.1	84	12†	33	5	37	1.07	- 1.86	0.51	0.0	3	15	14	1	se.	W. S. Campbell.		
<i>Colorado.</i>																						
Akron.....	Washington.....	4,650	7																Ira M. Barnhouse.			
Alma.....	Park.....	10,238	12																W. H. Powless.			
Arriba (near).....	Lincoln.....	5,238	3	60.2		86	11	34	22	41	2.51		2.98	+ 2.23	1.30	T.	7	4	sw.	C. S. Graves.		
Auldhurst.....	Teller.....	8,500	2																Mrs. Alice A. Auld.			
Barker.....	Boulder.....	8,000																	E'n Colo. P. Co.			
Boreas.....	Park.....	11,489	13	62.2	- 1.3	90	2	35	22	36	4.51	+ 2.88	2.81	0.68	1.8	9	2	4	nw.	Frank Soper.		
Boulder.....	Kit Carson.....	5,347	5																S. A. Giffin.			
Burlington.....	Cassels.....	4,180																	C. Greglow.			
Castle Rock.....	Douglas.....	6,220	18	55.0	- 4.8	79	39	28	22	41	3.93	+ 3.01	0.70	0.0	10				Hattie M. Caswell.			
Cheesman.....	Jefferson.....	6,890	6	57.6	- 1.1	85	2	32	23	42	3.58	+ 2.10	0.85	T.	9	21	7	2	sw.	Chas. Hy. Ellis.		
Cheyenne Wells.....	Cheyenne.....	4,279	16	62.8	- 1.8	94	3	35	23	46	2.93	+ 1.64	1.72	0.0	4	17	8	5	s.	C. L. Adams.		
Como.....	Park.....	9,785	10																J. B. Robertson.			
Edgewater.....	Washington.....		11	62.4†	- 2.5	91	10	33	24	45†	1.17	+ 0.24	0.36	0.0	8	16	10	4	s.	Edwin Pike.		
Ester Park Hatchery.....	Grand.....	11,490	2	38.2		58	2†	14	23	28	3.53		4.30	+ 3.63	1.61	2.0	8		w.	A. A. Williams.		
Fort Collins.....	Denver.....	5,272	37	61.2	+ 1.5	89	2	33	22	38	3.39	+ 2.89	1.94	0.0	10	15	10	5	s.	U.S. Weather Bureau.		
Fort Morgan.....	Jefferson.....		1	60.8		88	2†	33	22†	49	3.39		1.56		0.52	0.0	9	15	6	w.	Dr. J. B. Fish.	
Frances.....	Larimer.....	8,000																	Gaylor H. Thompson.			
Fry's Ranch.....	Morgan.....	4,958	29	58.8	- 0.7	84	27	30	24	47	2.10	+ 0.96	0.95	0.0	7	18	7	5	nw.	Colo. Agr. College.		
Georgetown.....	Boulder.....	9,319	4	51.3†		77*	1	24*	22	31*	2.36		0.80	T.	9	10	15	9	w.	Della M. Scott.		
Greeley.....	Larimer.....	9,300	4			78	2†	25	23	46	1.08		0.38	0.0	8	15	7	8	w.	D. A. Barry.		
Hartsell.....	Phillips.....	7,500		53.4															Norman W. Fry.			
Hawthorne.....	Clear Creek.....	8,550	8																H. L. Corbett.			
Holyoke (near).....	Weld.....	6,690	18	61.9	+ 0.6	91	2	32	24	50	1.42	+ 0.64	0.46	0.0	7	19	6	5	se.	Nelson Reynolds.		
Idaho Springs.....	Park.....	6,000	1																B. L. Chesebro.			
Keota.....	Boulder.....	2,745	13	54.5	- 1.6	79	2	27	22	37	3.06	+ 2.10	1.10	0.0	8				J. E. T. Hazen.			
Koosler.....	Phillips.....	4,966																	J. J. Wills.			
La Port.....	Boulder.....	5,053	18																E'n. Colo. P. Co.			
Le Roy (near).....	Larimer.....	4,380	20	62.0	- 1.2	87	3	36	22†	43	2.81	+ 1.77	1.26	0.0	7	16	8	6	se.	P. A. Taft.		
Longmont.....	Boulder.....	4,980	7	61.0		91	2	31	23†	47	1.85	+ 1.24	0.0	0	7	17	7	6	se.	Chas. Green.		
Long's Peak (near).....	Larimer.....	8,600	14	48.6	- 0.2	74	3	20	23	40	1.70	- 0.12	0.70	0.0	8	13	8	9	w.	Geo. W. Johnson.		
Moraite.....		7,775	19																Enos A. Mills.			
Platte Canyon.....	Jefferson.....	5,492	10																J. D. Stead.			
Sedgwick.....	Larimer.....	7,750																	Norman Steele.			
Sill Mine.....	Sedgwick.....	3,573	1	63.2		91	11	32	23†	55	2.95		2.28	+ 3.22	1.67	0.0	11		e.	Mrs. Phoebe A. Campion.		
Spicer (near).....	Clear Creek.....	11,500																	Dr. Edwin Lewis.			
Waterdale.....	Larimer.....	8,700																	Chas. F. Doeringer.			
Westlake.....	Boulder.....	5,206	14	59.8	- 0.6	87	2	32	23†	46	2.66	+ 1.32	1.18	0.0	9				Frank W. Murphy.			
Wray.....	Yuma.....	3,512	15	64.1	- 0.5	91	11	32	24	50	0.95	- 0.41	0.35	0.0	5	16	9	5	se.	P. H. Boothroyd.		
Yuma.....	Yuma.....	4,138	18																G. E. Richardson.			
<i>Nebraska.</i>																			J. C. Tuomey.			
Ainsworth.....	Brown.....	2,521	4	63.4		91	28	34	19	42	3.28		1.58	0.0	5	9	16	5	sw.	Geo. W. Custer.		
Albion.....	Boone.....	1,747																	John M. Cotton.			
Alliance.....	Boxbutte.....	3,968	14																F. A. Pittenger.			
Alma.....	Harlan.....	1,939	12	65.8	- 0.4	95	11	34	24	48	2.82	+ 0.47	0.91	0.0	11	17	8	5	nw.	Agent, C. B. & Q. R. R.		
Anoka.....	Boyd.....	3		61.0		90	10†	25	24	57	1.53		0.72	0.0	5	12	10	8	nw.	W. A. Sharpnack.		
Arcadia.....	Valley.....	2,186																	W. W. Whittle.			
Ashland.....	Saunders.....	1,100	19	66.1	- 1.0	94	11	40	23†	43	5.09	+ 2.16	1.70	0.0	17	15	11	4	se.	J. L. Owen.		
Ashon.....	Sherman.....	2,061																	A. S. von Mansfeld.			
Atkinson.....	Holt.....	2,108	4	61.4		88	29	35	24	50	3.06		1.41	+ 0.62	0.51	0.0	4	17	10	3	se.	Fred Rein.
Auburn.....	Nemaha.....	1,051	17	66.0	- 1.1	96	12	37	27†	48	4.48	+ 1.42	1.55	0.0	10	16	7	7	se.	C. J. Wilson.		
Aurora.....	Hamilton.....	1,792	66.0	- 1.2	94	11	37	24	43	4.38	+ 1.13	1.08	0.0	5	21	1	8	e.	J. R. Huffman.			
Beatrice.....	Gage.....	1,235	18	66.0	- 1.1	92	12	39	23†	40	4.59	+ 1.82	1.85	0.0	9	19	5	6	sw.	Agent, C. B. & Q. R. R.		
Beaver City.....	Furnas.....	2,147	18	68.6	+ 1.2	100	11	36	23†	47	2.29	+ 0.40	0.90	0.0	6	17	7	6	sw.	W. S. Waxham.		
Belleview.....	Sarpy.....	2,110	5	66.2		93	12	42	23	40	6.06	+ 2.55	0.25	0.0	11	15	5	10	se.	T. M. Davis.		
Bertrand.....	Washington.....	2,515																	Belleview College.			
Bloomfield.....		1,122	12	64.8	+ 0.2	89	11†	39	24	37	5.53	+ 2.20	1.33	0.0	11	16	9	5	sw.	W. F. Dobbins.		
Bluffhill.....	Knox.....		63.2			90	18	32	24	45	3.06		10.70	+ 7.27	4.35	0.0	7	13	6	11	sw.	H. H. Habn.
Bradshaw.....	Webster.....	1,967																	J. M. Barnard.			
York.....	Cheyenne.....	1,715																	Agent, C. B. & Q. R. R.			
Cheyenne.....		3,800	13	62.8	+ 0.9	92	11	30	24	54	1.05	- 0.03	0.50	0.0	3	20	8	2	se.	E. C. Roggy.		
Brokenbow.....	Custer.....	2,477	15	62.2	- 0.8	94	11	28	23	51	3.18	+ 0.95	1.68	0.0	6	22	0	8	se.	R. H. Willis.		
Burchard.....	Pawnee.....	1,377																	Agent, C. B. & Q. R. R.			
Burge.....	Cherry.....	2,674	1	62.2		90	11	29	19	50	1.75		1.35	0.0	5	21	6	3	se.	Doane College.		
Burwell.....	Garfield.....	2,180																	J. H. Corrick.			
Cairo.....	Hall.....	1,951																	H. A. Davis.			
Callaway.....		2,555	17	64.2	+ 2.2	95	11	34	24	49	2.73	+ 0.75	1.70	0.0	2	15	7	8	se.	Agent, C. B. & Q. R. R.		
Cambridge.....	Furnas.....	2,258	2	66.8		98	11	31	24	51	1.47		1.00</td									

TABLE 1.—Climatological data for September, 1909. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeasured.	Number of rainy days, .01 inch or more.	Number of part. clear days.	Number of part. cloudy days.	Number of cloudy days.		
<i>Nebraska—Cont'd.</i>																				
Dawson.	Richardson	945	13	66.0	— 2.8	93	11	35	27	41	4.73	+ 1.20	1.95	0.0	9	18	6	s. ne.	Mrs. E. I. Atkinson.	
Dubois.	Pawnee	1,074									6.39	3.14	0.0	0	10	20	5	5	O. M. Backus.	
Duff.	Rock.																		Dewitt Eager.	
Edgar.	Clay.	1,722																	G. W. Ferree.	
Ellis.	Gage.	1,430																	D. J. Wood.	
Elmcreek.	Buffalo.	2,268																	E. L. Sutton.	
Elzie.	Perkins.	3,382																	J. L. Brittain.	
Enderslake <sup>a</sup> .	Brown.	1	61.9			91	28	30	21	47	1.90	.....	1.05	0.0	0	4	10	3	C. D. Langley.	
Endicott.	Jefferson.	1,288									3.30	.....	1.00	0.0	0	6	10	3	Agent, C. B. & Q. R. R.	
Ewing.	Holt.	1,888	3	62.6		91	11	33	23	46	5.27	+ 3.02	2.90	0.0	0	8	14	9	G. H. Benson.	
Fairbury.	Jefferson.	1,316	3	67.6	+ 0.4	96	11	39	23	41	6.23	+ 3.47	1.94	0.0	0	6	11	13	W. F. Cramb.	
Fairmont.	Fillmore.	1,641	15	63.8	— 1.9	94	11	37	24	43	3.90	+ 1.11	1.13	0.0	0	7	18	0	Agent, C. B. & Q. R. R.	
Fort Robinson.	Dawes.	3,784	27	60.8	— 0.2	90	11	27	23	51	2.21	+ 1.14	0.70	0.0	0	3	21	3	Post Surgeon.	
Franklin.	Franklin.	1,820	15	66.8	+ 0.1	104	10	32	24	45	2.90	+ 0.34	1.00	0.0	0	5	20	6	D. T. Shoemaker.	
Fremont.	Dodge.	1,203	27	65.0	0.0	90	11	38	23	44	6.19	+ 3.33	2.28	0.0	0	10	14	9	Ernest Rahn.	
Fullerton.	Nance.	1,629	3	64.6		93	18	34	24	41	5.58	.....	1.27	0.0	0	9	16	10	Dr. F. W. Johnson.	
Genoa.	Fillmore.	1,633	17	66.6	+ 0.6	92	12	39	24	37	5.10	+ 2.48	1.34	0.0	0	8	15	7	F. M. Flory.	
Gordian <sup>a</sup> .	Nance.	1,584	34	64.7	+ 0.4	92	11	34	24	47	3.29	+ 0.20	0.76	0.0	0	12	11	15	F. W. Parsons.	
Gosper.	Sheridan.	3,550	1	59.4		92	11	24	24	55	1.45	.....	0.81	0.0	0	7	13	2	G. F. Williams.	
Gothenburg.	Dawson.	2,557	15	65.4	+ 0.8	95	11	31	24	51	1.37	—	0.62	0.0	0	4	15	4	E. H. Stoll.	
Grand Island.	Hall.	1,860	17	64.0	— 1.3	88	12	36	24	40	2.02	—	0.62	1.04	0.0	7	11	3	W. J. Bartholomew.	
Grant.	Perkins.	3,405	5	63.3		92	20	32	25	48	1.72	.....	1.00	0.0	0	6	12	16	E. A. Barnes.	
Greeley.	Greeley.	2,021	2	64.8		96	11	31	24	41	2.37	—	0.26	1.05	0.0	7	17	9	Cyrus Carver.	
Guderlock.	Webster.	1,646									5.43	—	2.83	2.80	0.0	8	12	10	W. E. Morgan.	
Haigler.	Dundy.	3,258									0.84	—	0.18	0.38	0.0	3	14	12	J. S. Marsh.	
Halsey <sup>b</sup> .	Thomas.	2,695	6	64.1		90	20†	30	24	50	4.62	.....	2.73	0.0	0	7	19	5	Agent, C. B. & Q. R. R.	
Hartington.	Cedar.	1,209	18	62.0	— 0.8	86	11†	38	51	40	3.32	+ 1.48	1.10	0.0	0	8	12	6	U. S. Forest Service.	
Harvard.	Clay.	1,812	19	63.1	— 1.8	91	11	38	24	41	6.40	+ 3.54	1.46	0.0	0	12	13	6	D. E. Ewing.	
Hastings.	Adams.	1,932	16	63.0	— 2.3	87	9†	33	24	47	5.80	+ 2.95	2.06	0.0	0	6	18	5	Dr. J. T. Fleming.	
Hayes Center.	Hayes.	5	64.5			93	12	34	23	48	1.55	—	0.28	1.15	0.0	5	21	7	Agent, C. B. & Q. R. R.	
Hay Springs.	Sheridan.	3,821	22	60.4	+ 0.7	90	11	28	19	54	1.35	—	0.32	0.45	0.0	5	10	4	C. A. Ready.	
Hebron.	Thayer.	1,458	24	65.5	— 1.2	95	11	38	24	40	6.13	—	3.43	1.46	0.0	8	11	11	A. Kadlecik.	
Hendley.	Furnas.	2,231									1.76	.....	0.80	0.0	0	4	12	4	C. M. Easton.	
Holdrege.	Phelps.	2,324	15	65.8	— 1.8	90	11†	38	23	42	1.67	—	0.59	0.80	0.0	5	17	1	F. A. Jones.	
Hooper <sup>b</sup> .	Dodge.	1,228	12	65.4	+ 1.7	92	12	37	24	45	4.87	+ 0.99	2.16	0.0	0	12	11	6	Agent, C. B. & Q. R. R.	
Imperial.	Chase.	3,278	20	64.4	— 0.4	90	11†	30	24	52	1.52	—	0.18	0.83	0.0	5	19	3	T. W. Lyman.	
Kearney <sup>a</sup> .	Buffalo.	2,146	17	66.3	— 1.0	96	11	33	23	43	3.31	—	0.57	1.30	0.0	8	16	5	Robt. Malcolm.	
Kimbball.	Kimbball.	4,697	21	60.4	— 0.5	84	3†	39	14	40	0.47	—	0.41	0.22	0.0	3	21	4	N. C. Dunlap.	
Kirkwood.	Rock.	14	63.4	+ 0.8	90	11		32	24	47	2.71	—	0.33	1.93	0.0	8	10	5	F. J. Bellows.	
Kowanda.	Denell.										1.86	.....	1.56	0.0	0	5			Mrs. C. Arter.	
Leavitt <sup>b</sup> .	Dodge.	1,223																	Geo. W. Hulse.	
Lexington.	Dawson.	2,385	20	63.8	+ 0.1	91	11	31	24	47	2.04	—	0.03	1.60	0.0	2	25	0	Rob't Chadwick.	
Lincoln.	Lancaster.	1,189	24	66.2	+ 1.0	96	11	41	24	39	4.69	+ 2.05	1.65	0.0	0	15	10	11	U. S. Weather Bureau.	
Lodgepole.	Custer.	2,067		62.8	— 1.1	95	11	31	24	47	2.74	—	0.37	1.16	0.0	5	17	8	C. H. Cass.	
Loup.	Boyd.	17	63.8	— 0.5	91	10†	30	24	50	1.98	.....	1.00	—	0.14	1.20	0.0	4	20	5	S. W. Lightner.
Loyal.	Redwillow.	2,506	9	62.8		89	16†	25	24	58	0.0	.....	0.0	0.0	0	0	5	5	C. G. Cogilizer.	
Lynch <sup>b</sup> .	York.	1,575									3.72	—	0.07	0.90	0.0	0	7		L. L. Slagle.	
McCook <sup>b</sup> .	Madison.	1,585	15	62.8	— 0.7	89	11	35	24	41	5.18	—	2.15	2.10	0.0	0	8	0	Dr. F. A. Long.	
Marquette.	Hamilton.	1,830									3.87	—	1.34	1.09	0.0	0	9		John Ellis.	
Mason City.	Custer.	2,257									1.66	.....	1.00	0.0	0	3			J. A. Amsberry.	
Minden.	Kearney.	2,169	26	65.0	+ 0.1	97	11	36	23	42	3.40	+ 0.71	1.15	0.0	0	8	15	8	Joel Hull.	
Mitchell.	Scottsbluff.	1	60.9			87	3	31	23	48	0.54	.....	0.24	0.0	0	5	16	1	U.S. Reclamation Service.	
Monroe.	Platte.	1,525									3.70	—	0.13	1.10	0.0	0	13	15	Wm. Webster.	
Nebraska City <sup>a</sup> .	Otoe.	941	27	69.0	+ 2.6	95	12	35	23	41	5.77	—	2.03	1.38	0.0	9	17	10	Agent, C. B. & Q. R. R.	
Northfolk.	Madison.	1,532	24	62.1	— 1.4	90	11	35	24	41	3.64	+ 0.33	1.06	0.0	0	12	20	4	Dr. F. H. Salter.	
North Loup.	Valley.	1,961	21	64.7	+ 0.6	94	11	30	24	50	1.90	—	0.20	1.20	0.0	4	15	3	W. G. Rod.	
North Platte.	Lincoln.	2,841	35	64.0	+ 0.8	90	11	34	24	47	0.77	—	0.73	0.40	0.0	6	18	5	U. S. Weather Bureau.	
Oakdale.	Antelope.	1,732	21	61.2	— 1.5	89	11	32	24	40	4.13	—	1.83	1.63	0.0	11	12	7	G. S. Clingman.	
Odell.	Gage.	1,278									7.96	—	4.76	2.15	0.0	9	15	6	Agent, C. B. & Q. R. R.	
Omaha.	Douglas.	1,103	39	65.6	— 0.2	93	12	48	24	35	5.25	—	2.22	1.51	0.0	11	12	10	U. S. Weather Bureau.	
Ord.	Valley.	2,062									2.23	—	0.43	1.21	0.0	8	15	7	James Milford.	
Orleans.	Hanson.	1,993									3.41	.....	1.71	0.0	0	6			James McGeachin.	
Osceola.	Folk.	1,644																		
Palmyra <sup>b</sup> .	Otoe.	1,142	11	65.8	+ 0.3	92	11	42	27	45	5.83	+ 2.24	2.19	0.0	0	9	14	2	Thos. Coles.	
Pawnee City.	Pawnee.	1,175	6	67.0		96	12	34	27	45	6.36	+ 3.14	2.98	0.0	0	10	23	5	F. A. Barton.	
Plymouth.	Jefferson.	1,419	5	65.8		94	11	39	24	40	5.27	.....	1.90	0.0	0	8	11	6	John Ruppel.	
Purdum.	Blaine.	8	62.8			90	20†	29	24	50	2.17	.....	0.82	0.0	0	8	17	6	T. C. Jackson.	
Ravena.	Buffalo.	2,023	20	63.8	— 1.1	96	10	29	24	50	1.57	—	0.61	0.63	0.0	7	17	6	Erastus Smith.	
Redcloud.	Webster.	1,687	13	66.6	— 0.2	96	11	35	24	46	5.32	—	2.52	1.60	0.0	7	18	5	C. S. Lud	

TABLE 1.—Climatological data for September, 1909. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Total snowfall unsealed.	Number of rainy days 0.1 inch or more.	Number of clear days.	Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.							
<i>Nebraska—Cont'd.</i>																		
Wauneta.....	Chase.....																C. D. Fuller.	
Weepingwater.....	Cass.....	1,080	3	62.8	— 2.8	91	28	34	24	47	4.86	+ 1.88	1.87	0.0	4		S. W. Orton.	
Westpoint.....	Cuming.....	1,313	13	62.8	— 2.8	91	28	34	24	47	5.04	+ 2.13	1.14	0.0	10	19	5	s.
Wilber.....	Saline.....	1,325									3.82	+ 1.03	1.10	0.0	6	11	6	13
Wisner.....	Cuming.....	1,380									5.83	+ 1.60	1.87	0.0	10	13	7	10
Woodlawn.....	Lancaster.....	1,186									3.71		1.43	0.0	10	15	10	5
York.....	York.....	1,606	17	68.2	— 0.7	92	13	37	23	47	3.36	+ 0.36	0.96	0.0	9	17	8	5
<i>Iowa.</i>																		
Afton.....	Union.....	1,212	14	63.8	— 1.3	90	12	38	27	32	2.78	— 0.87	1.01	0.0	8	11	11	8
Allerton §.....	Wayne.....	1,513	17	65.0	— 0.3	90	12	39	27	32	4.56	— 0.15	1.50	0.0	10	19	3	8
Alta §§.....	Buena Vista.....	6	60.8	.....	85	10	37	23	36	2.15	.....	0.50	0.0	12	12	6	s.	
Alta (near).....	Sioux.....	1,305	3	61.0	.....	85	11	35	51	37	4.42	.....	2.20	0.0	10	12	7	se.
Alton.....	Atlantic.....	1,164	17	64.2	— 0.2	91	12	37	27	36	6.03	+ 2.54	1.54	0.0	11	11	3	15
Audubon§.....	Audubon.....	1,301	15	60.4	— 2.8	85	11	32	27	34	5.32	+ 2.18	1.52	0.0	10	13	8	se.
Bedford§.....	Taylor.....	8	65.0	.....	92	12	35	23	39	5.53	.....	1.25	0.0	12	18	4	s.	
Chariton§.....	Lucas.....	1,042	13	63.6	— 1.9	90	12	37	23	36	3.97	+ 0.53	0.95	0.0	8	16	5	9
Clarinda.....	Page.....	1,009	18	64.4	— 1.8	94	12	35	27	43	5.59	+ 2.90	1.17	0.0	13	19	1	10
Corming§.....	Adams.....	1,117	16	63.4	— 1.4	90	12	37	27	35	5.12	+ 2.16	1.55	0.0	7	14	8	se.
Corydon§.....	Wayne.....	1,101	15	65.2	— 1.3	90	12	39	27	33	4.99	+ 1.40	2.50	0.0	10	18	4	s.
Creston.....	Union.....	1,312	3	63.2	.....	92	12	36	24	39	4.25	.....	1.02	0.0	11	16	2	12
Cumberland.....	Cass.....	9	.....	.....	.....	.....	.....	.....	.....	.....	4.14	.....	1.20	0.0	11	22	3	5
Denison.....	Crawford.....	1,180	13	62.4	— 1.3	88	3	34	24	36 <sup>a</sup>	4.43	+ 1.43	0.98	0.0	13	17	7	s.
Elliott.....	Montgomery.....	3	64.0	.....	90	12	35	27	35	5.03	.....	1.85	0.0	9	14	10	6	
Hancock§.....	Pottawattamie.....	1,113	2	64.4	.....	91	12	38	24	36	4.90	.....	1.50	0.0	8	14	10	6
Harlan§.....	Shelby.....	1,192	9	62.2	— 0.8	87	11	36	23	36	7.19	.....	1.55	0.0	10	11	8	se.
Hopeville.....	Clarke.....	17	64.1	— 2.3	89	13	37	27	33	1.83	— 1.66	0.81	0.0	7	12	12	6	
Inwood§.....	Lyon.....	1,474	4	61.7	.....	85	11	34	5	37	4.38	.....	2.53	0.0	11	13	8	9
Lamoni.....	Decatur.....	4	64.2	.....	90	12	38	27	31	5.75	.....	1.57	0.0	10	17	0	13	
Larrabee.....	Cherokee.....	1,266	17	60.1	— 2.7	83	9	36 <sup>b</sup>	23	30 <sup>c</sup>	4.87	+ 1.45	1.20	0.0	11	11	13	6
Le Mars§.....	Plymouth.....	1,224	20	60.6	— 1.9	83	11	38	5	28	5.72	+ 1.94	2.25	0.0	12	10	8	se.
Lenox§.....	Taylor.....	1,250	13	63.5	— 1.8	90	12	39	23	47	3.71	+ 0.38	1.00	0.0	8	21	4	5
Leon.....	Decatur.....	1,120	6	64.4	.....	90	13	35	24	41	4.65	.....	2.05	0.0	9	12	9	s.
Little Sioux§.....	Harrison.....	4	65.0	.....	92	12	35	24	41	4.62	.....	1.50	0.0	13	13	8	9	
Logan§.....	.....	928	42	63.9	— 0.2	89	11	37	24	41	6.16	+ 2.91	1.39	0.0	12	11	14	5
Mt. Ayr§.....	Ringgold.....	1,236	15	65.8	— 0.9	93	12	39	27	35	4.30	+ 0.77	1.25	0.0	11	12	8	10
Odebtol§.....	Sac.....	1,356	10	63.0	— 0.5	90	10	37	24	39	3.19	— 0.56	1.12	0.0	9	15	7	8
Onawa§.....	Monona.....	1,051	8	65.3	.....	89	10	41	23	40	4.18	.....	0.86	0.0	11	12	2	9
Pacific Junctions§.....	Mills.....	960	9	63.6	— 0.9	92	12	35	24	41	5.88	.....	2.54	0.0	8	12	5	s.
Rock Rapids§.....	Lyon.....	1,358	9	61.0	.....	85	11	34	23	43	4.12	.....	2.10	0.0	16	14	8	s.
Sheldon§.....	O'Brien.....	1,422	8	61.0	.....	90	12	35	23	40	5.21	+ 2.10	2.38	0.0	9	20	2	sw.
Sibley.....	Osceola.....	1,212	15	59.0	+ 0.6	98	12	34	28	49	4.9	+ 0.35	1.95	0.0	10	18	3	9
Sioux Center§.....	Sioux.....	9	60.4	— 0.9	84	11	39	28	30	4.33	.....	2.23	0.0	11	14	9	7	
Sioux City.....	Woodbury.....	1,135	20	63.0	— 1.1	87	12	39	24	33	1.99	— 0.48	0.51	0.0	10	12	10	8
Thurman§.....	Fremont.....	11	64.6	— 1.2	92	12	37	27	36	7.34	+ 2.55	1.63	0.0	11	10	12	8	
Washto§.....	Cherokee.....	1,157	10	61.2	.....	88	10	30	24	44	2.44	— 1.34	0.61	0.0	9	14	9	7
Woodburn.....	Clarke.....	961	9	62.0	.....	91	12	33	30	44	3.61	.....	1.00	0.0	9	13	7	10
<i>Kansas.</i>																		
Abilene.....	Dickinson.....	1,157	14	61.0	.....	85	11	34	23	43	4.12	.....	2.10	0.0	6	13	9	8
Agricultural College.....	Riley.....	1,100	51	68.8	+ 0.6	98	12	34	28	49	5.21	+ 2.10	2.38	0.0	9	20	2	e.
Alton.....	Osborne.....	1,651	7	68.4	.....	106	11	36	24	49	3.73	.....	1.93	0.0	8	18	8	4
Atchison.....	Atchison.....	973	18	64.4	.....	94	12	35	27	36	5.33	.....	2.30	0.0	10	12	7	6
Baker.....	Brown.....	1,182	9	65.4	— 0.8	92	12	36	27	39	7.70	.....	2.30	0.0	8	15	2	13
Beloit.....	Mitchell.....	1,383	14	61.9	.....	96	11	26	24	58	1.54	.....	0.84	0.0	4	21	3	6
Blakeman.....	Rawlins.....	2,894	1	63.9	.....	96	11	26	24	58	1.54	.....	0.84	0.0	4	21	3	6
Blue Rapids.....	Marshall.....	1,105	3	61.0	.....	94	12	38	28	40	7.54	.....	2.35	0.0	10	23	0	7
Centralia.....	Nemaha.....	1,256	5	66.7	.....	99	12	35	27	52	2.30	— 0.58	0.98	0.0	6	19	6	5
Chapman.....	Dickinson.....	1,133	5	70.3	.....	99	11	34	27	52	2.30	— 0.58	0.98	0.0	9	14	1	15
Clay Center.....	Clay.....	1,203	8	69.2	.....	100	11	35	27	56	3.63	.....	0.90	0.0	9	14	7	8
Colby.....	Thomas.....	3,138	18	65.2	— 0.2	94	2	34	23	48	1.97	+ 0.56	0.70	0.0	8	15	7	8
Concordia.....	Cloud.....	1,398	25	67.7	— 0.4	96	11	40	24	40	6.30	.....	2.08	0.0	11	13	4	se.
Densmore.....	Norton.....	2,200	1	67.2	.....	99	11	33	24	52	1.60	.....	0.91	0.0	6	13	11	6
Dresden.....	Decatur.....	2,731	15	66.6	+ 0.5	93	11	37	23	42	3.83	+ 0.71	1.06	0.0	7	18	4	8
Ellsworth.....	Ellsworth.....	1,537	8	65.6	.....	97	12	38	24	46	3.41	.....	1.60	0.0	8	14	9	7
Enterprise.....	Dickinson.....	1,144	7	70.2	.....	99	11	35	28	51	1.92	.....	1.12	0.0	6	19	7	4
Eskridge.....	Wabaunsee.....	1,412	3	69.2	.....	94	11	42	27	33	4.63	.....	2.31	0.0	7	6	5	5
Farnsworth.....	Lane.....	2,850	8	68.1	.....	98	2	36	23	54	3.08	.....	1.61	0.0	5	24	3	3
Ft. Scott.....	Bourbon.....	857	13	69.6	— 1.8	102	11	31	28	55	1.65	— 1.22	1.51	0.0	3	21	2	7
Frankfort.....	Marshall.....	1,146	15	63.0	— 1.0	98	11	33	27	46	7.93	+ 4.41	2.58	0.0	10	13	4	se.
Garnett.....	Anderson.....	950	3	70.0	.....	100	12	45	23	45	1.64	.....	0.96	0.0	5	18	0	nw.
Goodland.....	Sherman.....	3,687	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gove.....	Gove.....	2,750	20	69.4	+ 1.1	92	2	44	27	53	3.71	+ 1.47						

TABLE 1.—Climatological data for September, 1909. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.	Prevailing wind direction.	Observers.					
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeasured.	Number of rainy days, .01 inch or more.	Number of partly cloudy days.	Number of cloudy days.				
<b>Kansas—Cont'd.</b>																					
Scott.....	Scott.....	2,971	3	69.4	-	99	2	33	27	49	1.58	+ 7.92	0.08	0.0	3	17	10	3	s.		
Topeka.....	Shawnee.....	997	23	68.8	+ 0.5	97	11	43	27	34	11.48	+ 3.33	2.25	0.0	13	11	4	e.			
Valley Falls.....	Jefferson.....	913	10	67.4	- 0.1	94	12	41	27	34	7.41	-	0.0	0.0	9	18	6	6	se.		
Vinland.....	Douglas.....	880	10	67.8	-	95	12	36	27	39	7.56	-	3.77	0.0	9	16	7	7	se.		
Wakeeney.....	Trego.....	2,456	5	68.1	-	96	11	39	23	40	4.27	-	1.38	0.0	8	24	0	6	s.		
Wallace.....	Wallace.....	3,303	39	67.0	+ 0.2	98	1†	32	29	55	1.41	+ 0.09	1.00	0.0	4	12	18	2	s.		
Wamego.....	Pottawatomie.....	1,062	16	-	-	-	-	-	-	-	7.31	+ 3.85	3.75	0.0	7	16	6	8	n.		
<b>Missouri.</b>																					
Albany.....	Gentry.....	3	0	71.2	-	101	20	37	28	43	3.63	-	1.54	0.0	5	19	2	8	s.		
Amore.....	Bates.....	850	0	71.2	+ 1.5	105	11	35	28	49	2.22	- 1.16	0.95	0.0	5	20	8	2	s.		
Appleton City.....	St. Clair.....	853	18	72.0	-	105	-	-	-	-	-	-	-	-	-	-	-	-			
Arlington.....	Phelps.....	695	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Arthur.....	Vernon.....	767	16	70.6	+ 1.9	97	11	31	28	45	3.60	+ 0.02	2.45	0.0	3	13	15	2	ne.		
Avalon.....	Livingston.....	24	67.0	- 1.4	94	12	38	27	33	5.57	- 0.05	1.80	0.0	9	20	6	4	se.			
Bagnell.....	Miller.....	584	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Bethany.....	Harrison.....	881	19	63.4	- 3.1	90	13	40	24	36	5.87	+ 2.35	1.55	0.0	9	23	2	4	se.		
Bolivar.....	Polk.....	1,070	21	70.6	+ 0.7	102	11†	31	28	45	2.52	- 0.98	1.91	0.0	7	15	12	3	sw.		
Boonville.....	Cooper.....	600	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Brunswick.....	Charlton.....	651	30	68.0	- 0.2	94	12	40	28	41	5.98	+ 2.06	1.81	0.0	11	16	5	9	e.		
Clinton.....	Henry.....	800	7	71.2	-	100	12	36	28	43	4.07	-	1.84	0.0	6	23	4	3	e.		
Columbia.....	Boone.....	784	18	67.0	- 0.8	94	12	37	28	38	3.09	+ 0.24	2.22	0.0	10	14	0	7	se.		
Conception §.....	Nodaway.....	982	24	66.0	- 0.8	92	12	41	27	33	4.65	+ 1.39	1.16	0.0	8	15	11	4	se.		
Darksville.....	Randolph.....	826	18	66.7	- 2.1	92	12	40	27	31	7.13	+ 3.46	2.70	0.0	7	18	4	8	e.		
El Dorado Springs.....	Cedar.....	750	3	72.2	-	105	11	33	28	46	2.63	-	2.25	0.0	4	18	3	4	n.		
Fairport.....	De Kalb.....	920	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fayette §.....	Howard.....	725	26	65.8	- 3.2	91	12	36	28	36	6.25	+ 2.07	3.56	0.0	9	17	5	8	sw.		
Fulton™.....	Galloway.....	818	18	63.8	-	96	13	33	27†	44	0.65	-	0.38	0.0	5	11	5	3	n.		
Gallatin.....	Davies.....	803	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Glasgow.....	Howard.....	618	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Grant City.....	Worth.....	1,130	17	65.4	-	92	13	42	24†	33	5.23	+ 1.56	0.94	0.0	11	20	1	9	nw.		
Harrisonville.....	Cass.....	912	37	68.3	0.0	96	12	36	28	40	8.46	+ 4.34	3.92	0.0	10	17	2	11	e.		
Hasselhurst.....	Livingston.....	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Hermann.....	Gasconade.....	452	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Houston.....	Texas.....	1,280	17	68.7	+ 0.1	101	3	31	28	44	3.83	+ 0.03	1.58	0.0	6	11	16	3	s.		
Huntsville.....	Randolph.....	790	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Jefferson City.....	Cole.....	628	27	68.1	- 1.0	98	12	33	28	44	2.35	- 0.48	1.42	0.0	6	21	4	5	n.		
Kansas City.....	Jackson.....	963	21	68.8	+ 1.3	95	12	46	27	26	7.87	+ 3.02	2.38	0.0	13	17	7	8	se.		
Kidder.....	Caldwell.....	1,017	16	66.6	- 0.7	92	12	41	27	30	7.28	+ 3.50	2.05	0.0	12	19	4	7	sw.		
Lamotte.....	Pettis.....	863	21	68.4	-	99	12	33	28	43	3.47	- 0.44	1.56	0.0	8	19	7	4	n.		
Lebanon.....	Laclede.....	1,265	20	70.4	+ 0.4	98	4	37	28	38	1.26	- 2.56	0.50	0.0	7	15	7	8	nc.		
Lexington.....	Lafayette.....	813	27	67.6	- 0.7	95	12	39	27	36	12.04	+ 8.10	4.48	0.0	9	20	0	10	s.		
Liberty.....	Clay.....	864	21	68.7	- 0.4	96	12	39	28	37	9.51	+ 6.12	3.35	0.0	8	21	8	1	so.		
Lockwood.....	Dade.....	1,088	14	73.0	-	101	3	39	27	43	1.98	- 1.61	1.77	0.0	4	17	7	6	sc.		
Marshall ^.....	Saline.....	779	18	67.6	- 0.9	95	12	34	28	39	5.80	+ 1.74	1.84	0.0	9	19	6	5	sw.		
Marshfield.....	Webster.....	1,492	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Maryville.....	Nodaway.....	1,180	19	65.2	- 0.7	93	12	40	27	36	5.00	+ 1.53	1.02	0.0	11	19	2	8	s.		
Mt. Vernon.....	Lawrence.....	1,480	33	71.6	+ 0.3	100	11	34	28	41	3.30	- 0.23	2.25	0.0	6	15	14	1	se.		
Nevada.....	Vernon.....	869	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
New Palestine.....	Cooper.....	795	17	69.4	- 0.9	98	12	41	27†	40	2.72	- 1.49	1.45	0.0	5	20	7	3	sw.		
Oregon.....	Holt.....	1,113	54	65.1	- 2.0	90	12	40	27	32	5.86	+ 2.44	2.16	0.0	10	20	2	8	sc.		
Osceola.....	St. Clair.....	738	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Parkville.....	Platte.....	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Rolla.....	Phelps.....	1,092	28	69.2	-	97	3	39	27†	35	2.71	- 1.09	0.84	0.0	8	16	7	7	se.		
St. Charles.....	St. Charles.....	614	31	68.2	+ 2.1	95	3	39	27†	33	3.76	+ 1.08	1.39	0.0	6	15	7	8	e.		
St. Joseph.....	Buchanan.....	825	37	69.6	-	95	12	41	27†	38	5.96	+ 2.96	1.86	0.0	13	19	7	4	e.		
St. Louis.....	St. Louis.....	567	39	68.3	- 1.7	93	3	43	27	29	4.22	+ 1.31	1.70	0.0	8	16	7	7	se.		
Sublett.....	Adair.....	1,000	29	-	-	-	-	-	-	-	-	-	-	-	4.17	0.0	7	23	3	4	sw.
Trenton.....	Grundy.....	812	14	66.2	- 1.1	89	12	42	28	31	4.12	+ 0.72	0.90	0.0	9	24	0	6	se.		
Unionville.....	Putnam.....	1,072	16	65.2	- 2.5	92	12	35	27	35	5.05	+ 0.63	1.54	0.0	0	10	14	3	14	s.	
Versailles.....	Morgan.....	1,021	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Warrensburg.....	Johnson.....	883	30	69.9	+ 0.2	97	12	40	27	36	4.30	+ 1.15	1.80	0.0	8	18	8	4	sw.		
Warrenton.....	Warren.....	865	19	67.4	- 1.4	94	13	37	27	36	5.53	+ 1.96	3.04	0.0	7	16	3	11	s.		
Warsaw.....	Benton.....	700	5	71.4	-	101	12	28	26	53	7.59	-	2.62	0.0	10	15	13	2	e.		
Wheatland.....	Hickory.....	920	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

• Precipitation included in that of the next measurement.

• Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.

† Also on other dates.

‡ Data are from standard instruments not supplied by the U. S. Weather Bureau.

§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

\*\* Estimated by observer.

¶ Precipitation for the 24 hours ending on the morning when it is measured.

\*\* Precipitation is less than 0.01 inch rain or melted snow.

\*, †, ‡, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

Prof. S. F. Prince.

John H. Frick.

Dr. J. R. Smith,

Mrs. S. A. Jackson.

TABLE 2.—*Daily precipitation for September, 1909. District No. 6, Missouri Valley.*

Stations.	River basins.	Day of month.																														Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>Wyoming.</i>																																			
Arapahoe	Big Horn	.08	.08																																0.57
Barnum	Powder	.20																																1.57	
Basin	Big Horn	.07																																0.36	
Bennett	North Platte	.03	.08	.25	.23	.65																											1.73		
Cheyenne	South Platte	.13	T.	.52	.37	.07	.13	.01	T.		.07																					1.37			
Cheyenne Exp. Farm	do																																		
Chugwater	North Platte	.50	T.	T.	10	T.																											0.60		
Clark	Clark's Fork	.41	.04	.19	.02																												1.69		
Crystal Lake Reservoir	South Platte	T.	T.	40	.20	.40																										1.00			
Douglas	North Platte	.06																															1.37		
Dubois	Big Horn	.74	T.																														1.27		
Eaton's Ranch	Tongue	.11	.05	.59	.95																											2.92			
Echeta	Powder																																2.17		
Ell Mountain	North Platte	.09																															1.40		
Encampment	do																																1.66		
Ervy	do	.01																															2.30		
Filmore	do																																1.81		
Fort Laramie	do	.15	.03	.58	.03	.03	T.																									1.13			
Gillette	Powder	T.	T.	.73	.35	T.																										2.14			
Granite Canyon	South Platte	.01	T.	T.	.53	.13	.15	.06																							0.88				
Hunter's Station	Powder	.09																															2.11		
Hyattville	Big Horn																																		
Independence	North Platte	.40	T.	.01	.05	.16	.31	.18																								1.26			
Kaycee	Powder																																		
Kirtley	Niobrara	.38																															1.04		
Kirwin	Big Horn	.50	.02	.12																												1.32			
Knowles	Belle Fourche	.53	.48	.04	.43																											2.86			
Lander	Big Horn	.23																														0.76			
Laramie	North Platte	.68	.32	.32	.32																											0.97			
Leo	do	.12	.08	.06	.08	.01	.01	.20																								2.03			
Lolabana Ranch	Clark's Fork	.70																															1.62		
Lovell	Big Horn	.13	.01																														1.02		
Lusk	do	1.00	.25																														1.75		
Luther	South Platte	.31	.18	.14	.14	.78																										1.69			
Manville	Niobrara	.70	.10																														1.39		
Moorcroft	Belle Fourche																																		
Moore	North Platte	.16	.06	.11	.03	.27	T.																									0.88			
Newcastle	S. Fork, Cheyenne	1.02	.23	.17	.18	T.	T.																										1.62		
Pathfinder	North Platte																																		
Phillips	do	.76																															1.49		
Pine Bluff	South Platte																																0.69		
Powell	Big Horn	.23																																	
Riverton	do																																		
Saratoga	North Platte	.01																															1.25		
Sheridan, (1)	Tongue	.02	.01	.57	.27																											1.69			
Sheridan, (2)	do																															1.74			
Shoshone Dam	Big Horn	.26	.02																													0.89			
Soldier's Home	Powder	.07	.02	T.	.44																											1.86			
South Pass City	North Platte	1.49	T.	.10																												1.95			
Thermopolis	Big Horn	.25	.15																													1.23			
Upton	S. Fork, Cheyenne	1.00	.50	T.																												4.86			
Valley	Big Horn	.36	.03	.15	.09	.06																									1.35				
Verona	Tongue																															2.76			
Wiley	Big Horn	.15	.02	T.	.28	T.	T.																								0.86				
Wyncote	North Platte	T.	.30	T.																											0.60				
Yellowstone Park	Yellowstone	.81	.06	.16	.20	.13	T.	T.																							2.45				
(1) Fountain	Madison	1.10	T.	.14	.36	T.	.22	.31																						0.77					
(2) Grand Canyon	Yellowstone	.80	.16	.14	.13	.70	.15	.05	.07																				5.47						
(3) Lake Yellowstone	do	.52	.12	.03																											5.54				
(4) Norris Geyser B.	do	.40	.10																												3.70				
(5) Riverside	Madison	.76	.04	.14	.08	.17	.31																							1.60					
(6) Soda Butte	Yellowstone	.20		T.																											2.62				
(7) Sylvan Pass	Big Horn	.40	.47																												1.75				
(8) Thumb	Yellowstone	.76	.25	.11	.14	.04	.40	.14	.08																				1.92						
(9) Tower Falls	do	.05	.10																																

TABLE 2.—*Daily precipitation for September, 1909. District No. 6—Continued.*

TABLE 2.—Daily precipitation for September, 1909. District No. 6—Continued.

Stations.	River basins.	Day of month.																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total	
North Dakota—Cont'd.																																		
New England.	Cannon Ball.			1.26	.18																													2.04
New Salem.	Heart.			.60	.10																												0.85	
Orange.	Cannon Ball.			.19	.33	.23	.03																									1.20		
Palermo.	Missouri.																																0.62	
Steele.	do.			.62																													0.62	
Swartwood.	Grand.			.00	.98	.04	.10																									1.97		
Washburn.	Missouri.			T.	.30	.30																										1.27		
Williston.	do.			.46																													1.07	
Wishek.	do.			.80																													0.80	
South Dakota.																																		
Aberdeen  .	James.			.50	.60	.12																											2.05	
Academy.	Missouri.			.17	.25		.04																										0.66	
Alexandria.	James.			1.34																													1.77	
Andover.	do.			1.08																													2.73	
Ardmore  .	Cheyenne.			.45	T.		T.																										0.45	
Armour.	Missouri.			.70	.06		.06																										1.02	
Ashcroft.	Little Missouri.			.76	.26	T.																											1.60	
Belle Fourche.	Cheyenne.			.32	.09	.02	.33																									1.06		
Bowdle.	Missouri.			1.13	.40																												1.75	
Brookings.	Big Sioux.			.19	.09																												1.77	
Burke.	Missouri.																																	
Canton.	Big Sioux.																																	3.25
Cascade Springs.	Cheyenne.			.54		.10																											1.25	
Castlewood.	Big Sioux.			.27	.03	.22	T.																									1.02		
Centerville.	Missouri.			.05	.01	.02	.07																									5.85		
Chamberlain.	do.			T.	.25		T.																										0.66	
Clark.	James.			.32	.02	.04																										0.96		
Clear Lake.	Big Sioux.																																	
Cottonwood.	do.			.40	.29	.02	.03																										1.13	
Daviston.	Cheyenne.			14.1	0.00	.70																											2.30	
Deadwood.	do.			.30	.10	.05	.1.50																										2.80	
De Smet.	James.			.45																													1.05	
Dowling.	Cheyenne.			.18	.23		.05																										0.78	
Dumont.	do.			.52	.10	.11	.28																										1.67	
Elk Point.	Missouri.																																	
Ellingson.	do.																																	
Englewood.	Cheyenne.			.50		.67																											1.92	
Eureka.	Missouri.			.1.04	.06	.04																										1.25		
Fairfax.	do.			.22	.25	.18	.01																										0.68	
Farmingdale.	Cheyenne.			.73		.50																											1.51	
Faulkton.	Big Sioux.			.32																													1.54	
Flandreau.	James.			1.06	T.	T.																										1.19		
Fort Meade.	Cheyenne.			.30	.10	.80																										1.19		
Frederick.	James.			.87	.12																											1.19		
Gann Valley.	Missouri.			.65																													1.19	
Greenmont.	Cheyenne.			.52	.21	.13	.76																									3.34		
Greenwood.	Missouri.			.74																													1.12	
Hardy Ranger Station.	Cheyenne.			.89	.11	.03	T.																									2.61		
Hermosa.	do.			.60		.25																										1.05		
Highmore.	Missouri.																																1.70	
Hill City.	Cheyenne.			.28	.22	.07	.39																									1.16		
Howard.	Big Sioux.			.55	.04																											1.38		
Huron.	James.			T.	1.11		.07	T.																								1.74		
Ipswich.	do.			.67	.01	.04																										0.48		
Kadoka.	White.			.48																														
Kennebec.	Missouri.			.45																													0.77	
Kidder.	James.			T.																													0.80	
Kimball.	Missouri.			T.	.69																												0.96	
Le Dellie.	James.																																	
Lead.	Cheyenne.			.42	.24	.10	.03																									2.36		
Leemon.	Missouri.			T.																													0.29	
Leslie.	Cheyenne.			T.																													1.09	
Marion.	Missouri.			.61																													1.63	
Mellette.	James.			.54	.04	.39	T.																									1.46		
Mенно.	do.			T.	.84																												2.36	
Mitchell  .	James.			.1.40																													1.87	
Murdo.	White.			.20																													0.63	
Orman.	Cheyenne.			.38	.19		.33																									1.13		
Ottumwa.	Missouri.			16.1	.50																											2.61		
Pierre.	do.			.29	.26	.32	.09																									1.19		
Plankinton.	James.			* 1.17		.03																										1.22		
Pollock.	Missouri.			.1.10		.21																										1.66		
Rapid City.	Cheyenne.																																	

TABLE 2.—*Daily precipitation for September, 1909. District No. 6—Continued.*

TABLE 2.—*Daily precipitation for September, 1909. District No. 6—Continued.*

TABLE 2.—*Daily precipitation for September, 1909. District No. 6—Continued.*

Stations.	River basins.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Kansas—Cont'd.																																		
Garnett.	Marais des Cygnes.	.06																																1.64
Govt.	Smoky Hill	.09																															3.71	
Hanover.	Blue.	17.2	05	.83	1.72	.03	.12	.20																							6.94			
Harrison.	Republican.	34.2	26	.23	T.	.12	.04	.02	.05																					5.43				
Hayes  .	Smoky Hill	T.		T.	T.	T.	.57	.15																							2.78			
Hill City.	Solomon.																																	
Horton.	Kansas.	1.60		.85	1.80	.06	.86	.78																							7.95			
Hoxie.	Solomon.	.10		.94	.95			.10	.21	.36																					3.56			
Jewell.	Republican.	.34		.08	1.03																										3.52			
Lawrence.	Kansas.	1.23	T.	.02	.26	7.23	.61	.15																						11.49				
Leavenon.	Solomon.	.43		.32				.34	.34																						3.55			
Lindsborg  .	Smoky Hill																																	
Manhattan  .	Kansas.	*	.28	T.		T.	1.93	1.70	.25																					4.37				
Mankato.	Republican.	.31		.34			.29	.02	.17	.09																				3.87				
Minneapolis.	Solomon.	.10		T.	T.	.32	.22	1.10	1.75																				5.26					
Moran.	Marmaton.			T.																											1.11			
Norton.	Republican.	.30		.33			T.	T.	.56	.05																				3.19				
Oberlin.	do.	.68	.01	.03	43	T.	.02	.10	.30	.03																			1.96					
Oketo.	Blue.	*	1.42	.88	.24	8.48	.02	.10	.17																				6.82					
Olathe.	Kansas.	1.19	T.	.10	.50	2.52	.16	.03																					7.62					
Osage City  .	Marais des Cygnes.	T.		T.		.40	.42	.05																						1.45				
Ottawa.	do.	.13		.08	.34	2.55	.10	T.																					4.22					
Paola.																																		
Philipsburg.	Solomon.	.35		T.	.26		T.	.04	T.	.06																				3.08				
Pleasanton.	Marais des Cygnes.	.13																													3.54			
Republic.	Republican.																																	
Russell.	Smoky Hill																																	
St. Francis.	Republican.	.20	T.	.08	1.40	.02	.35																							2.66				
Salina.	Smoky Hill	.02		T.	T.	.03	.57	1.74	T.																				3.01					
Scott.	do.			.08																											1.58			
Topeka.	Kansas.	.05	1.50	.04	.01	4.39	3.80	.84	.02																				11.48					
Valley Falls.	do.	.20		.01																											7.41			
Vinland.	do.	.58		.06																											7.56			
Wamego.	Smoky Hill	.04																													4.27			
Wamego.	Kansas.	T.	.65	T.	.10																									1.41				
Missouri.	Grand.																														7.31			
Albany  .	Osage.	.28																																
Amoret.	do.																																	
Appleton City.	Gasconade.																																	
Arlington  .	Osage.	.15																																
Arthur.	Grand.	.52		.38																														
Avalon.	Osage.																																	
Bagnell  .	Grand.																																	
Bethany.	Osage.																																	
Bolivar.	Grand.	.25		.33																														
Boonville  .	Osage.	.36	10																															
Brunswick  .	Missouri.	.33	.58																															
Clinton.	Grand.	.08	T.	.02																														
Columbia.	Missouri.	.26		.06	1.34	.88	.08	.03																										
Conception.	do.	T.	.28	.48																														
Darksville.	Charlton.	.30																																
El Dorado Springs.	Osage.	T.																																
Fairport.	Grand.	.19		.01	2.70	.03																												
Fayette.	Missouri.	.29		.25																														
Fulton.	do.																																	
Galatin.	Grand.	.75		.85																														
Glasgow  .	Missouri.	.29	.81																															
Grant City.	do.	.70	.62	.42																														
Harrisonville  .	Osage.	.18	.22	.05																														
Haselhurst.	Grand.	.30		.48																														
Hermann  .	Missouri.	.02	T.	T.																														
Houston.	Gasconade.	T.	1.58																															
Huntsville.	Charitan.	.30			3.00																													
Jefferson City  .	Missouri.	T.																																
Kansas City.	do.	T.	.93	.01	.02																													
Kiddider  .	Grand.	.35	45	1.10	.07</td																													

## MONTHLY WEATHER REVIEW.

SEPTEMBER, 1909

TABLE 3.—Maximum and minimum temperatures at selected stations, September, 1909. District No. 6, Missouri Valley.

Date.		Wyoming.												Montana.															
		Basin.		Cheyenne.		Fort Laramie.		Lander.		Newcastle.		Pathfinder.		Sheridan.		Yellowstone Park.		Billings.		Dillon.		Havre.		Helena.		Lewiston.		Malta.	
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	80	60	74	58	71	55	70	59	68	53	.....	60	61	57	51	64	61	82	52	83	52	62	55	67	49	83	48		
2...	76	59	81	56	89	57	81	50	75	50	.....	71	58	71	50	74	59	70	49	79	63	65	54	71	47	90	59		
3...	79	51	81	52	88	55	83	49	81	52	.....	74	50	69	47	76	51	67	35	68	43	56	47	50	41	73	53		
4...	76	49	58	46	55	51	63	49	61	50	.....	61	47	53	43	66	49	71	38	72	32	66	46	69	42	76	32		
5...	71	47	58	46	74	50	66	45	62	45	.....	73	44	67	43	75	42	65	40	82	39	71	46	71	38	84	39		
6...	75	48	61	53	72	51	63	54	70	52	.....	75	49	67	47	80	42	69	39	85	39	76	48	80	38	84	39		
7...	81	57	71	53	85	56	75	50	75	51	.....	76	53	64	47	84	43	74	48	87	44	72	54	82	41	87	44		
8...	80	57	70	50	86	52	75	44	80	49	.....	79	50	69	47	85	50	75	48	87	56	77	50	80	44	89	50		
9...	82	48	75	48	87	49	78	45	85	48	.....	83	48	72	43	87	44	78	40	85	54	81	49	79	40	87	50		
10...	88	49	76	49	90	50	78	45	86	52	.....	86	44	70	44	90	43	71	39	91	43	74	47	82	48	93	48		
11...	70	48	79	47	90	49	65	45	89	54	.....	65	50	56	37	64	46	51	35	56	48	48	42	60	41	85	51		
12...	58	45	58	39	69	47	53	34	73	45	.....	55	45	42	38	64	46	68	38	62	46	57	43	59	41	76	45		
13...	60	39	59	40	68	42	70	31	67	38	.....	68	39	63	38	73	43	74	48	66	49	67	47	65	37	70	41		
14...	60	47	69	39	78	39	73	36	75	40	.....	67	46	67	40	73	44	79	47	67	44	69	47	89	40	67	41		
15...	68	50	76	41	89	41	80	37	80	42	.....	78	40	73	40	83	43	80	41	79	49	74	47	72	41	73	41		
16...	80	47	77	50	86	44	78	41	81	45	.....	78	43	71	38	84	42	74	36	84	48	76	45	81	42	85	48		
17...	84	46	77	43	89	40	77	46	84	50	.....	85	40	64	36	86	40	69	31	70	46	59	43	76	38	85	56		
18...	80	45	62	38	70	55	61	34	62	37	.....	60	37	53	27	65	32	71	32	63	44	56	42	73	39	83	45		
19...	63	35	72	37	83	35	72	32	74	42	.....	70	32	57	41	72	23	66	39	67	38	62	39	58	32	68	37		
20...	65	40	76	44	82	48	69	41	70	40	.....	65	42	57	36	68	46	68	36	64	48	56	57	65	41	65	41		
21...	60	41	55	37	57	45	52	34	64	38	.....	52	42	44	28	56	29	59	32	59	46	52	41	65	37	60	38		
22...	60	35	51	30	61	39	54	29	58	32	.....	56	37	46	26	61	37	67	31	61	45	52	42	54	31	63	32		
23...	62	31	61	29	67	31	63	25	56	29	.....	62	34	62	26	69	33	69	30	66	35	63	34	65	30	69	31		
24...	70	31	73	32	85	28	73	29	79	31	.....	75	30	69	34	82	30	74	31	80	32	72	37	84	40	81	33		
25...	81	38	77	39	88	32	80	36	85	41	.....	85	34	75	43	91	31	79	41	90	44	81	43	82	35	91	41		
26...	82	40	77	39	89	40	81	42	90	49	.....	89	46	68	48	90	34	83	43	82	53	76	53	80	47	84	46		
27...	80	46	78	44	89	39	81	41	86	52	.....	85	45	74	44	89	44	84	47	84	51	78	54	82	42	86	41		
28...	82	44	75	44	85	34	83	41	87	51	.....	86	42	75	40	90	43	84	50	91	46	81	48	87	48	88	47		
29...	83	43	77	41	90	38	76	48	83	50	.....	79	46	58	44	82	42	74	47	77	55	70	49	80	44	80	58		
30...	79	46	79	45	85	38	74	40	84	47	.....	69	40	54	29	72	50	72	33	67	45	53	43	58	30	72	51		
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
Mns	73.8	45.4	70.4	43.6	79.9	44.3	71.7	41.1	75.6	45.2	.....	72.5	43.8	63.1	39.6	76.5	42.0	72.2	39.4	75.0	46.1	66.7	45.8	72.0	39.9	78.9	44.2		

Date.		Montana.												North Dakota.												South Dakota.											
		Miles City.		Poplar.		Berthold Agency.		Bismarck.		Dickinson.		Jamestown.		Williston.		Aberdeen.		Chamberlain.		Huron.		Kadoka.		Lemmon.		Pierre.		Rapid City.									
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.						
1...	76	60	84	45	.....	74	47	71	43	73	36	81	42	63	43	65	51	63	46	.....	73	52	62	53	58	53	53	53	53	53	53						
2...	66	58	85	47	.....	64	56	63	55	64	51	77	59	57	45	63	50	57	52	.....	64	51	60	55	70	57	57	56	56	56	56						
3...	74	56	74	52	.....	72	52	73	48	77	49	80	46	71	53	68	54	69	55	.....	75	56	73	57	75	56	56	56	56	56	56						
4...	69	46	70	35	.....	67	43	73	41	66	43	66	36	65	51	60	51	66	49	.....	64	45	67	54	62	46	51	51	51	51	51						
5...	81	52	83	42	.....	73	41	75	41	70	31	73	44	67	37	64	40	66	37	.....	72	40	65	48	70	50	51	51	51	51	51						
6...	83	50	82	42	.....	74	47	73	45	63	41	76	38	72	50	74	45	73	52	.....	75	49	74	52	73	56	56	56	56	56	56						
7...	81	57	83	47	.....	76	49	77	51	79	34	79	54	72	46	69	44	72	46	.....	71	43	70	53	72	55	55	55	55	55	55						
8...	85	54	90	49	.....	80	53	88	57	76	45	83	50	70	47	78	52	73	59	.....	72	45	77	59	79	59	59	59	59	59	59						
9...	88	54	87	49	.....	90	54	85	52	78	49	84																									

TABLE 3.—*Maximum and minimum temperatures at selected stations, September, 1929. District No. 6—Continued.*